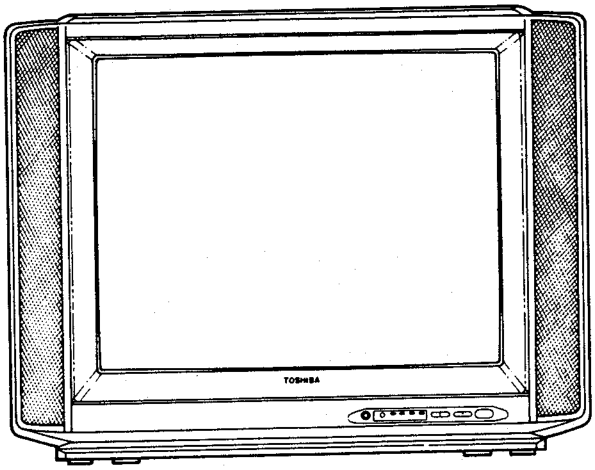
SERVICE DATA
FILE NO. 050-338
9-SYSTEM

TOSHIBA
COLOUR TELEVISION
2505DDT



For service information not described in this manual, see the original service data for 2805DDT (Filte No. 050-330).

SPECIFICATIONS

Input Power Rating:	126 watts, AC 220 volts, 50 Hz	
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF	
Receiving Channels:	PAL B/G Standard, SECAM B/G Standard:	
	VHF	channels 2 to 4, 5 to 12 and S1 to S20, S21 to S41
	UHF	channels 21 to 69
	PAL I Standard:	
	UHF	channels 21 to 68
	PAL, D/K, SECAM D/K Standard:	
	VHF	channels 1 to 12
	UHF	channels 21 to 69
	PAL, SECAM 50 Hz / 60 Hz (For Video Disk playback) 4.43NTSC (For VCR playback), 3.58NTSC (For VCR playback)	
Intermediate Frequencies:	Picture I-F carrier frequency	38.9 MHz
	Sound I-F carrier frequency	
	B/G System	33.4 / 33.16 MHz
	I System	32.9 MHz
	D/K System	32.4 MHz
Picture Tube:	25 inches, A59KHQ146X01, 590 mm (measured on diagonal of viewable picture area), 110° deflection	
Sound Output:	20 watts (at 10% harmonic distortion) x 2	
Speakers:	130 x 70 mm, 2 pcs 90 x 60 mm, 2 pcs	
Aux. Terminals:	Headphone Jack, 21 pin socket, S-VIDEO/AUDIO socket, External speaker terminal, AUDIO/VIDEO input socket	
Cabinet:	Table type	
Dimensions:	Height	536 mm
	Width	710 mm
	Depth	450 mm
Weight:	30.5 kg	

Specifications are subject to change without notice.

Printed in Japan Sep. 1990 (So)

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.5 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 27.5 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T.. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

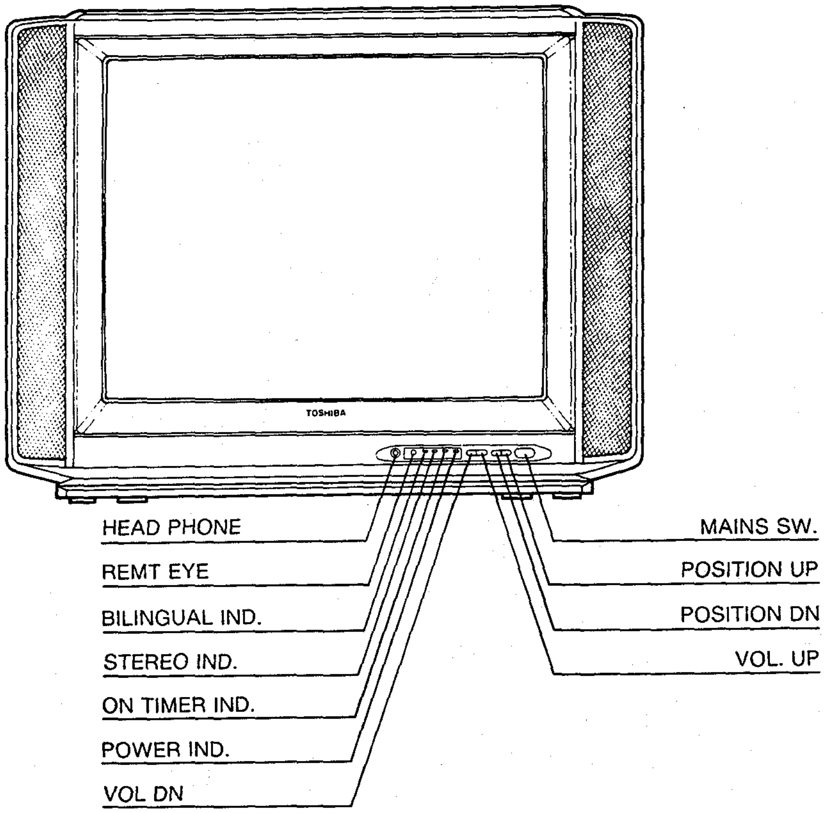
SAFETY PRECAUTION

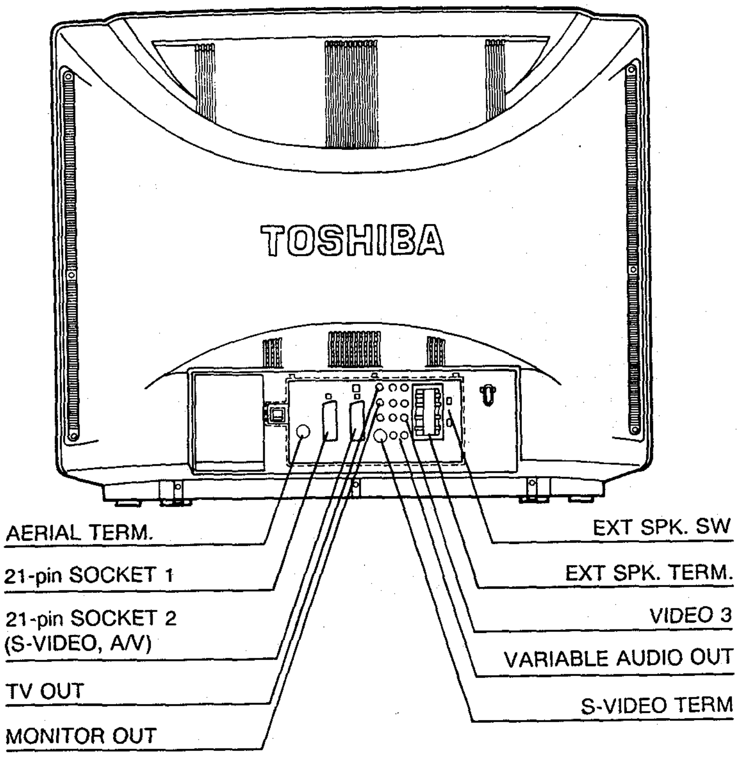
1. This receiver has a nominal working E.H.T. voltage of 25.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

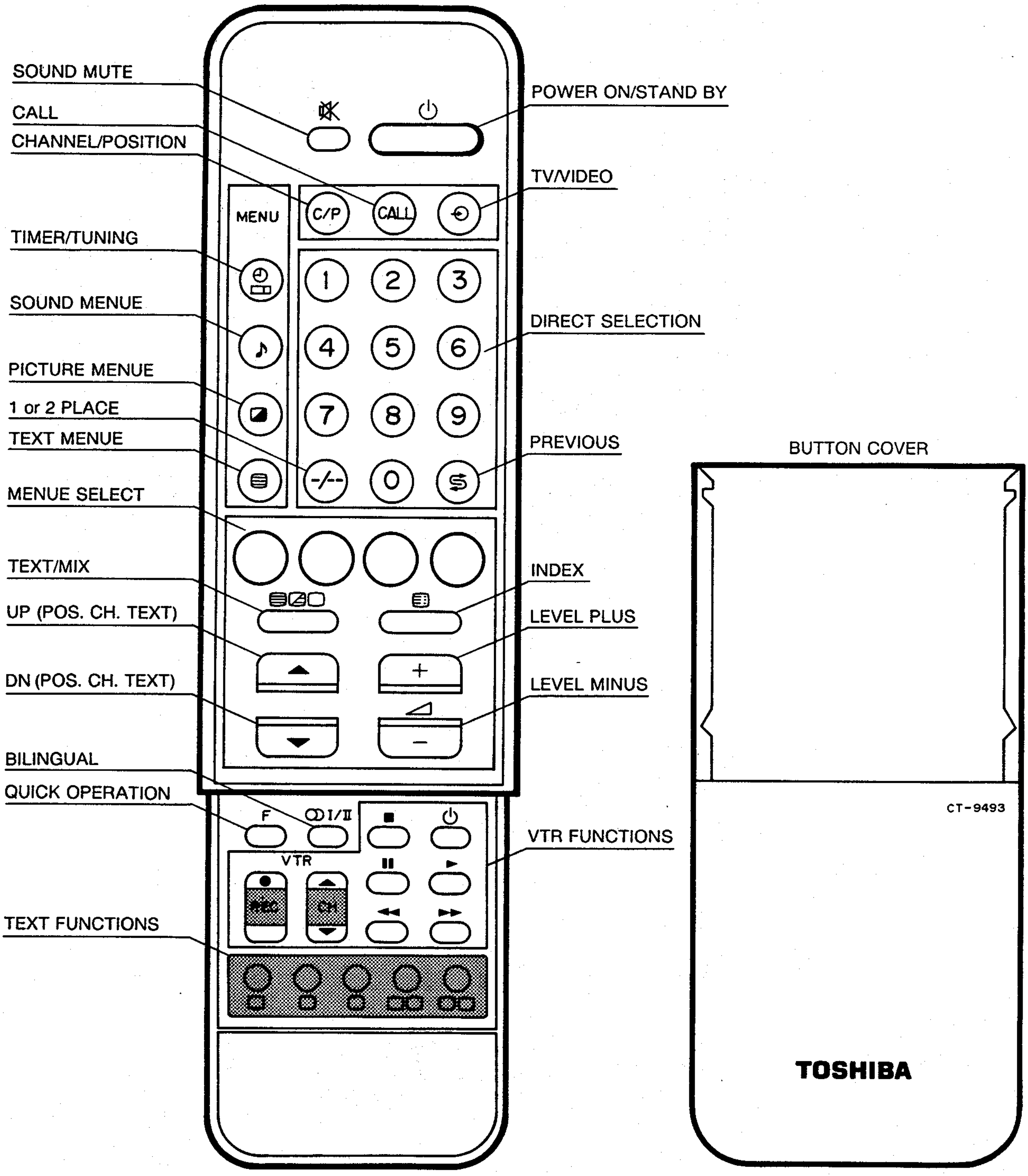
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc.Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS

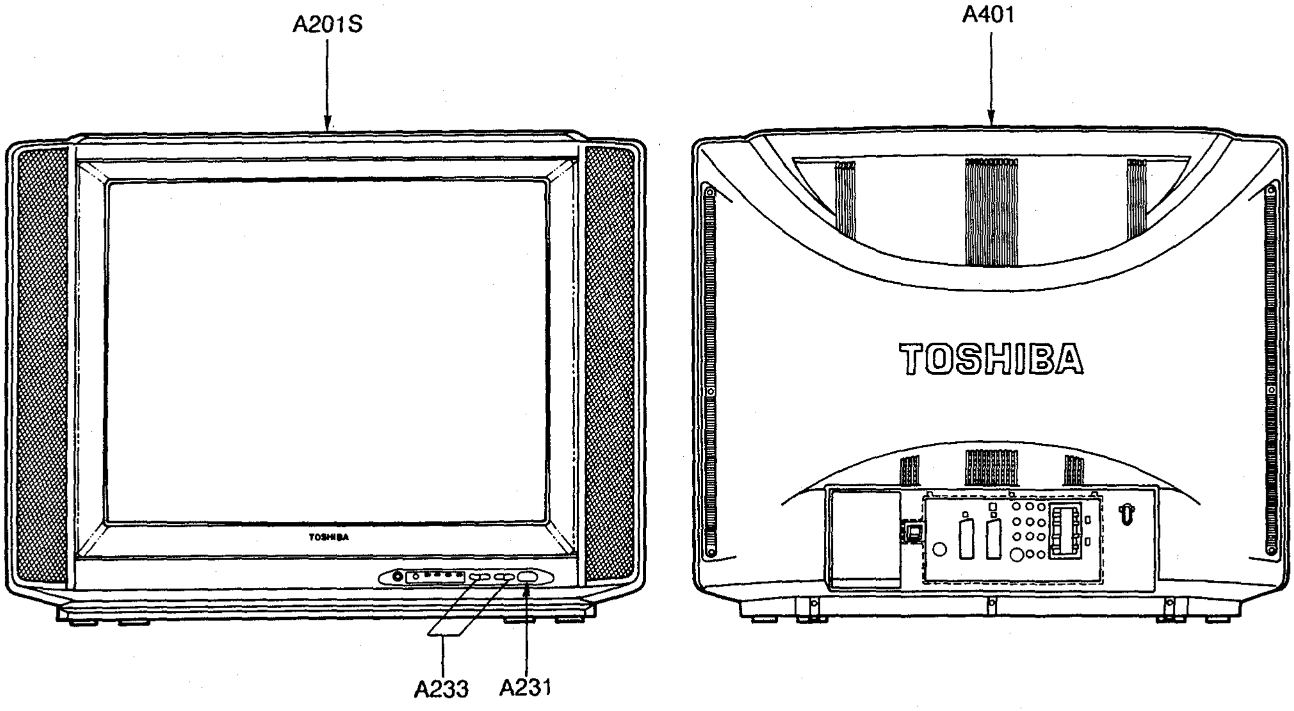

TOSHIBA
HEAD PHONE
REMT EYE
BILINGUAL IND.
STEREO IND.
ON TIMER IND.
POWER IND.
VOL DN
MAINS SW.
POSITION UP
POSITION DN
VOL. UP


TOSHIBA
AERIAL TERM.
21-pin SOCKET 1
21-pin SOCKET 2
(S-VIDEO, A/V)
TV OUT
MONITOR OUT
EXT SPK. SW
EXT SPK. TERM.
VIDEO 3
VARIABLE AUDIO OUT
S-VIDEO TERM

REMOTE HAND HELD UNIT


SOUND MUTE
CALL
CHANNEL/POSITION
TIMER/TUNING
SOUND MENUE
PICTURE MENUE
1 or 2 PLACE
TEXT MENUE
MENUE SELECT
TEXT/MIX
UP (POS. CH. TEXT)
DN (POS. CH. TEXT)
BILINGUAL
QUICK OPERATION
TEXT FUNCTIONS
POWER ON/STAND BY
TV/VIDEO
DIRECT SELECTION
PREVIOUS
INDEX
LEVEL PLUS
LEVEL MINUS
VTR FUNCTIONS
MENU
C/P
CALL
1
2
3
4
5
6
7
8
9
-/--
0
+
−
F
I/II
VTR
REC
CH
BUTTON COVER
CT-9493
TOSHIBA

CABINET REPLACEMENT PARTS LIST



Location No.	Part No.	Description
A201S	23418704	Front Cover
A231	23443482	Button, POWER
A233	23443483	Button, 4-key
A401	23423667	Back Cover
A411	23567434	Label, Model No., B/C
A412	23995762	Label (ON B/C)
A701	23523720	Carton Box
A702	23934135	Packing, Bottom
A703	23934136	Packing, Top
A710	23567159	Label, Model No., Carton
Y101	23994918	Owner's Manual
Y102	23994946	X-Ray Sheet

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors......... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors........... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor
(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24815102	Chip, 1000pF, ±10%
C102	24815102	Chip, 1000pF, ±10%
C104	24797220	EL, 22μF, 50V
C105	24814103	Chip, 0.01μF, +80%, −20%
C106	24636229	EL, 2.2μF, 50V
C107	24538473	PF, 0.047μF
C108	24707474	Tantalum, 0.47μF, ±20%, 35V
C109	24814103	Chip, 0.01μF, +80%, −20%
C113	24636478	EL, 0.47μF, 50V
C114	24794470	EL, 47μF, 16V
C115	24814103	Chip, 0.01μF, +80%, −20%
C116	24814103	Chip, 0.01μF, +80%, −20%
C119	24814103	Chip, 0.01μF, +80%, −20%
C124	24794101	EL, 100μF, 16V
C125	24814103	Chip, 0.01μF, +80%, −20%
C126	24815152	Chip, 1500pF, ±10%
C127	24794331	EL, 330μF, 16V
C161	24814103	Chip, 0.01μF, +80%, −20%
C162	24815102	Chip, 1000pF, ±10%
C163	24815102	Chip, 1000pF, ±10%
C164	24814103	Chip, 0.01μF, +80%, −20%
C165	24815102	Chip, 1000pF, ±10%
C166	24814103	Chip, 0.01μF, +80%, −20%
C169	24814103	Chip, 0.01μF, +80%, −20%
C170	24778201	Chip, 200pF
C181	24633471	EL, 470μF, 16V
C182	24232103	CD, 0.01μF, +80%, −20%
C183	24636229	EL, 2.2μF, 50V
C184	24636229	EL, 2.2μF, 50V
C185	24232103	CD, 0.01μF, +80%, −20%
C186	24474103	CD, 0.01μF, ±30%, 16V
C188	24232103	CD, 0.01μF, +80%, −20%
C189	24636229	EL, 2.2μF, 50V
C190	24232103	CD, 0.01μF, +80%, −20%
C191	24474103	CD, 0.01μF, ±30%, 16V
C192	24636010	EL, 1μF, 50V
C201	24085981	EL, 10μF, ±20%, 16V
C202	24795101	EL, 100μF, 25V
C203	24232103	CD, 0.01μF, +80%, −20%
C204	24797220	EL, 22μF, 50V
C205	24636478	EL, 0.47μF, 50V
C208	24212102	CD, 1000pF, ±10%
C209	24232103	CD, 0.01μF, +80%, −20%
C211	24636010	EL, 1μF, 50V
C212	24232103	CD, 0.01μF, +80%, −20%
C213	24232103	CD, 0.01μF, +80%, −20%
C240	24636478	EL, 0.47μF, 50V
C301	24636229	EL, 2.2μF, 50V
C302	24212152	CD, 1500pF, ±10%
C312	24590622	PF, 6200pF
C313	24796221	EL, 220μF, ±20%, 35V
C314	24668222	EL, 2200μF, ±20%, 35V
C315	24214221	CD, 220pF, ±10%, 500V
C316	24795332	EL, 3300μF, 25V
C317	24617915	EL, 1μF, ±10%, 50V
C319	24082057	PF, 0.22μF, 100V
C321	24435510	CD, 51pF, 500V
C322	24796221	EL, 220μF, ±20%, 35V
C323	24082049	PF, 0.047μF, 100V
C371	24590183	PF, 0.018μF
C372	24617912	EL, 2.2μF, ±10%, 50V
C373	24636478	EL, 0.47μF, 50V
C374	24666101	EL, 100μF, ±20%, 16V
C375	24590472	PF, 4700pF
C376	24212102	CD, 1000pF, ±10%
C377	24212222	CD, 2200pF, ±10%
C378	24538104	PF, 0.1μF
C402	24353241	CD, 240pF
C403	24636339	EL, 3.3μF, 50V
C405	24590203	PF, 0.02μF
C406	24590153	PF, 0.015μF
C407	24590243	PF, 0.024μF
C408	24636100	EL, 10μF, 50V
C409	24232103	CD, 0.01μF, +80%, −20%
C410	24693272	PF, 2700pF, 100V
C414	24212221	CD, 220pF, ±10%
C415	24214221	CD, 220pF, ±10%, 500V
C416	24214271	CD, 270pF, ±10%, 500V
C417	24214821	CD, 820pF, ±10%, 500V
C418	24790100	EL, 10μF, ±20%, 160V

Location No.	Part No.	Description
C421	24095755	PF, 0.47μF, 200V
C422	24828683	PF, 0.068μF, 200V
C423	24814103	Chip, 0.01μF, +80%, −20%
C423	24095947	PF, 0.39μF, 200V
C424	24795470	EL, 47μF, ±20%, 25V
C424	24676479	EL, 4.7μF, ±20%, 100V
C425	24794101	EL, 100μF, 16V
⚠ C440	24095893	PF, 6200pF, ±3%, 1600V
C441	24214221	CD, 220pF, ±10%, 500V
⚠ C442	24095893	PF, 6200pF, ±3%, 1600V
C443	24214221	CD, 220pF, ±10%, 500V
C445	24828563	PF, 0.056μF, 200V
⚠ C446	24829243	PF, 0.024μF, 400V
C447	24644479	EL, 4.7μF, 250V
C448	24667102	EL, 1000μF, ±20%, 25V
C449	24666471	EL, 470μF, ±20%, 16V
C451	24640962	EL, 33μF, ±20%, 200V
⚠ C463	24212222	CD, 2200pF, ±10%
⚠ C464	24082014	PF, 1000pF, ±3%, 1600V
C465	24095758	PF, 0.62μF, 200V
C466	24640933	EL, 1μF, ±20%, 200V
C501	24797220	EL, 22μF, 50V
C502	24636100	EL, 10μF, 50V
C503	24436101	CD, 100pF
C504	24436271	CD, 270pF
C505	24590273	PF, 0.027μF
C506	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085028	EL, 2.2μF, 25V, Non-Polar
C509	24353150	CD, 15pF
C510	24232103	CD, 0.01μF, +80%, −20%
C511	24232103	CD, 0.01μF, +80%, −20%
C512	24353300	CD, 30pF
C513	24232103	CD, 0.01μF, +80%, −20%
C514	24436101	CD, 100pF
C515	24636220	EL, 22μF, 50V
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF
C518	24232103	CD, 0.01μF, +80%, −20%
C519	24232103	CD, 0.01μF, +80%, −20%
C520	24636478	EL, 0.47μF, 50V
C521	24538474	PF, 0.47μF
C522	24538474	PF, 0.47μF
C523	24538474	PF, 0.47μF
C524	24636479	EL, 4.7μF, 50V
C525	24436820	CD, 82pF
C526	24436820	CD, 82pF
C527	24436820	CD, 82pF
C528	24436271	CD, 270pF
C530	24796220	EL, 22μF, ±20%, 35V
C531	24633100	EL, 10μF, 16V
C532	24436101	CD, 100pF
C533	24436101	CD, 100pF
C534	24436101	CD, 100pF
C535	24636100	EL, 10μF, 50V
C536	24636478	EL, 0.47μF, 50V
C537	24794101	EL, 100μF, 16V
C540	24436301	CD, 300pF
C541	24436301	CD, 300pF
C542	24436301	CD, 300pF
C601(U101)	24815102	Chip, 1000pF, ±10%
C601(U902)	24636229	EL, 2.2μF, 50V
C602(U101)	24815102	Chip, 1000pF, ±10%
C602(U902)	24636010	EL, 1μF, 50V

Location No.	Part No.	Description
C603(U902)	24633330	EL, 33μF, 16V
C603(UG01)	24814103	Chip, 0.01μF, +80%, −20%
C604(U902)	24538224	PF, 0.22μF
C604(UG01)	24797470	EL, 47μF, ±20%, 50V
C605(U902)	24590104	PF, 0.1μF
C605(UG01)	24781821	Chip, 810pF
C606(U902)	24669101	EL, 100μF, ±20%, 50V
C606(UG01)	24781911	Chip, 910pF
C607	24538104	PF, 0.1μF
C608(U902)	24590392	PF, 3900pF
C608(UG01)	24636100	EL, 10μF, 50V
C609(U902)	24636229	EL, 2.2μF, 50V
C609(UG01)	24814103	Chip, 0.01μF, +80%, −20%
C610(U902)	24636010	EL, 1μF, 50V
C610(UG01)	24814103	Chip, 0.01μF, +80%, −20%
C611(U902)	24633330	EL, 33μF, 16V
C611(UG01)	24814103	Chip, 0.01μF, +80%, −20%
C612(U902)	24538224	PF, 0.22μF
C612(UG01)	24781470	Chip, 47pF
C613(U902)	24590104	PF, 0.1μF
C613(UG01)	24781470	Chip, 47pF
C614(U902)	24669101	EL, 100μF, ±20%, 50V
C614(UG01)	24814103	Chip, 0.01μF, +80%, −20%
C615	24667101	EL, 100μF, 25V
C617	24590392	PF, 3900pF
C618	24636229	EL, 2.2μF, 50V
C619	24636010	EL, 1μF, 50V
C620	24633330	EL, 33μF, 16V
C621	24538224	PF, 0.22μF
C622	24590104	PF, 0.1μF
C623	24669101	EL, 100μF, ±20%, 50V
C625	24590392	PF, 3900pF
C626	24590104	PF, 0.1μF
C627	24636229	EL, 2.2μF, 50V
C628	24756010	EL, 1μF, 50V
C629	24633330	EL, 33μF, 16V
C630	24538224	PF, 0.22μF
C632	24669101	EL, 100μF, ±20%, 50V
C633	24667101	EL, 100μF, 25V
C635	24590392	PF, 3900pF
C636	24795222	EL, 2200μF, 25V
C637	24668222	EL, 2200μF, ±20%, 35V
C638	24796222	EL, 2200μF, 35V
C639	24795101	EL, 100μF, 25V
C640	24795222	EL, 2200μF, 25V
C641	24232103	CD, 0.01μF, +80%, −20%
C642	24590102	PF, 1000pF
C643	24590102	PF, 1000pF
C665	24814103	Chip, 0.01μF, +80%, −20%
C666	24774680	Chip, 68pF
C667	24781471	Chip, 470pF
C668	24781471	Chip, 470pF
C669	24814103	Chip, 0.01μF, +80%, −20%
C674	24794470	EL, 47μF, 16V
C675	24814103	Chip, 0.01μF, +80%, −20%
⚠ C801	24098999	PF, 0.1μF, ±20%, AC250V
⚠ C802	24094654	CD, 470pF, ±20%, AC400V
⚠ C803	24094654	CD, 470pF, ±20%, AC400V
C804	24094654	CD, 470pF, ±20%, AC400V
C805	24094654	CD, 470pF, ±20%, AC400V
C806	24098999	PF, 0.1μF, ±20%, AC250V
C811	24092281	CD, 4700pF, ±20%, AC250V
C812	24092281	CD, 4700pF, ±20%, AC250V
C813	24092281	CD, 4700pF, ±20%, AC250V

Location No.	Part No.	Description
C814	24092281	CD, 4700pF, ±20%, AC250V
C818	24086873	EL, 330μF, ±20%, 400V
C820	24636100	EL, 10μF, 50V
C823	24636100	EL, 10μF, 50V
C824	24797221	EL, 220μF, ±20%, 50V
C825	24212102	CD, 1000pF, ±10%
C826	24550104	PF, 0.1μF, 63V
C827	24598561	PF, 560pF
C828	24636100	EL, 10μF, 50V
C829	24757470	EL, 47μF, 100V
C830	24095931	PF, 2200pF, 1600V
C831	24232103	CD, 0.01μF, +80%, −20%
C832	24092336	CD, 180pF, ±10%, 2kV
C833	24086939	EL, 330μF, ±20%, 200V
C834	24636479	EL, 4.7μF, 50V
C835	24214221	CD, 220pF, ±10%, 500V
C836	24795222	EL, 2200μF, 25V
C837	24436561	CD, 560pF
C838	24598561	PF, 560pF
C839	24550474	PF, 0.47μF, 63V
C840	24636100	EL, 10μF, 50V
C842	24633470	EL, 47μF, 16V
C843	24633470	EL, 47μF, 16V
C844	24214221	CD, 220pF, ±10%, 500V
C845	24795222	EL, 2200μF, 25V
C846	24214221	CD, 220pF, ±10%, 500V
C847	24797222	EL, 2200μF, ±20%, 50V
C848	24214221	CD, 220pF, ±10%, 500V
C860	24797102	EL, 1000μF, ±20%, 50V
C861	24092340	CD, 390pF, ±10%, 2kV
C862	24636479	EL, 4.7μF, 50V
C864	24092343	CD, 680pF, ±10%, 2kV
C865	24214391	CD, 390pF, ±10%, 500V
C866	24214391	CD, 390pF, ±10%, 500V
C867	24550474	PF, 0.47μF, 63V
C868	24795221	EL, 220μF, ±20%, 25V
C870	24636010	EL, 1μF, 50V
C871	24214391	CD, 390pF, ±10%, 500V
C872	24212101	CD, 100pF, ±10%
C873	24636229	EL, 2.2μF, 50V
C901	24644479	EL, 4.7μF, 250V
C902	24095923	PF, 4700pF, 1600V
C903	24212102	CD, 1000pF, ±10%
CA13	24633100	EL, 10μF, 16V
CA15	24232103	CD, 0.01μF, +80%, −20%
CA16	24633220	EL, 22μF, 16V
CA17	24633220	EL, 22μF, 16V
CA29	24232103	CD, 0.01μF, +80%, −20%
CA31	24436300	CD, 30pF
CA32	24436300	CD, 30pF
CA36	24590104	PF, 0.1μF
CA70	24636010	EL, 1μF, 50V
CA71	24212102	CD, 1000pF, ±10%
CA72	24212472	CD, 4700pF, ±10%
CA73	24636010	EL, 1μF, 50V
CA74	24232103	CD, 0.01μF, +80%, −20%
CA75	24436561	CD, 560pF
CA76	24633330	EL, 33μF, 16V
CA90	24212102	CD, 1000pF, ±10%
CB01	24212101	CD, 100pF, ±10%
CB02	24232103	CD, 0.01μF, +80%, −20%
CB03	24232103	CD, 0.01μF, +80%, −20%
CB04	24474103	CD, 0.01μF, ±30%, 16V
CB05	24232103	CD, 0.01μF, +80%, −20%

Location No.	Part No.	Description
CF01	24814103	Chip, 0.01μF, +80%, −20%
CF02	24633100	EL, 10μF, 16V
CF03	24794470	EL, 47μF, 16V
CF04	24085002	EL, 2.2μF, 50V, Non-Polar
CF05	24538683	PF, 0.068μF
CF06	24781221	Chip, 220pF
CF08	24538473	PF, 0.047μF
CF09	24774180	Chip, 18pF
CF11	24538473	PF, 0.047μF
CF12	24794470	EL, 47μF, 16V
CF13	24814103	Chip, 0.01μF, +80%, −20%
CF14	24814103	Chip, 0.01μF, +80%, −20%
CF16	24262180	Chip, 18pF
CF20	24781150	Chip, 15pF
CF21	24591102	PF, 1000pF
CF22	24781471	Chip, 470pF
CF23	24538223	PF, 0.022μF
CF24	24781271	Chip, 270pF
CF25	24781101	Chip, 100pF
CF26	24774150	Chip, 15pF
CF27	24781270	Chip, 27pF
CF36	24815561	Chip, 560pF, ±10%
CG01	24774681	Chip, 680pF
CG02	24774331	Chip, 330pF
CG03	24774681	Chip, 680pF
CG04	24774331	Chip, 330pF
CG07	24636100	EL, 10μF, 50V
CG10	24636100	EL, 10μF, 50V
CG13	24814103	Chip, 0.01μF, +80%, −20%
CG14	24636478	EL, 0.47μF, 50V
CG15	24636478	EL, 0.47μF, 50V
CG16	24636478	EL, 0.47μF, 50V
CG18	24814103	Chip, 0.01μF, +80%, −20%
CG19	24636100	EL, 10μF, 50V
CG20	24538224	PF, 0.22μF
CG21	24436510	CD, 51pF
CM01	24436221	CD, 220pF
CM02	24436221	CD, 220pF
CM05	24232103	CD, 0.01μF, +80%, −20%
CM06	24357270	CD, 27pF
CM07	24590563	PF, 0.056μF
CM08	24232103	CD, 0.01μF, +80%, −20%
CM10	24436270	CD, 27pF
CN02	24436470	CD, 47pF
CN03	24232103	CD, 0.01μF, +80%, −20%
CN04	24436300	CD, 30pF
CN05	24436471	CD, 470pF
CN06	24436330	CD, 33pF
CN07	24436220	CD, 22pF
CN09	24814103	Chip, 0.01μF, +80%, −20%
CN10	24436101	CD, 100pF
CN15	24353330	CD, 33pF
CN18	24353200	CD, 20pF
CN21	24774270	Chip, 27pF
CS04	24633100	EL, 10μF, 16V
CS08	24633100	EL, 10μF, 16V
CS30	24633100	EL, 10μF, 16V
CS31	24633100	EL, 10μF, 16V
CS75	24636100	EL, 10μF, 50V
CS76	24538104	PF, 0.1μF
CS77	24794101	EL, 100μF, 16V
CS78	24538104	PF, 0.1μF
CS79	24591392	PF, 3900pF
CS80	24538333	PF, 0.033μF

RESISTORS

Location No.	Part No.	Description
R101	24872222	Chip, 2200 ohm, 1/16W
R102	24872124	Chip, 120k ohm, 1/16W
R103	24872222	Chip, 2200 ohm, 1/16W
R104	24872332	Chip, 3300 ohm, 1/16W
R105	24872153	Chip, 15k ohm, 1/16W
R106	24872913	Chip, 91k ohm, 1/16W
R107	24872123	Chip, 12k ohm, 1/16W
R108	24872102	Chip, 1000 ohm, 1/16W
R110	24872562	Chip, 5600 ohm, 1/16W
R112	24872332	Chip, 3300 ohm, 1/16W
R113	24872132	Chip, 1300 ohm, 1/16W
R114	24872222	Chip, 2200 ohm, 1/16W
R115	24872101	Chip, 100 ohm, 1/16W
R116	24872471	Chip, 470 ohm, 1/16W
R117	24872112	Chip, 1100 ohm, 1/16W
R118	24872470	Chip, 47 ohm, 1/16W
R119	24872472	Chip, 47 ohm, 1/16W
R124	24872151	Chip, 150 ohm, 1/16W
R126	24872101	Chip, 100 ohm, 1/16W
R127	24552102	OMF, 1k ohm, 1/2W
R128	24872334	Chip, 330k ohm, 1/16W
R129	24871101	Chip, 100 ohm, 1/8W
R151	24066599	VR, 5k ohm, 1/10W
R153	24066946	Variable Resistor, 1M ohm, 1/10W
R161	24872182	Chip, 1800 ohm, 1/16W
R162	24872181	Chip, 180 ohm, 1/16W
R163	24872472	Chip, 47 ohm, 1/16W
R164	24872121	Chip, 120 ohm, 1/16W
R165	24872272	Chip, 2700 ohm, 1/16W
R166	24872220	Chip, 22 ohm, 1/16W
R167	24552271	OMF, 270 ohm, 1/2W
R168	24872102	Chip, 1000 ohm, 1/16W
R169	24872152	Chip, 1500 ohm, 1/16W
R170	24872151	Chip, 150 ohm, 1/16W
R171	24872181	Chip, 180 ohm, 1/16W
R172	24872393	Chip, 39k ohm, 1/16W
R173	24872333	Chip, 33k ohm, 1/16W
R174	24872100	Chip, 1000 ohm, 1/16W
R201(U101)	24872271	Chip, 270 ohm, 1/16W
R201(U902)	24366152	CF, 1500 ohm
R203	24366152	CF, 1500 ohm
R204	24366472	CF, 4700 ohm
R208	24366101	CF, 100 ohm
R212	24366103	CF, 10k ohm
R213	24366152	CF, 1500 ohm
R214	24366182	CF, 1800 ohm
R216	24366473	CF, 47k ohm
R219	24366472	CF, 4700 ohm
R242	24366912	CF, 9100 ohm
R243	24366153	CF, 15k ohm
R252	24061593	VR, 500 ohm, 1/8W
R253	24061593	VR, 500 ohm, 1/8W
R301	24366131	CF, 130 ohm
R302	24366244	CF, 240k ohm
R305	24366161	CF, 160 ohm
R316	24383271	OMF, 270 ohm, 2W
R317	24366102	CF, 1k ohm
R318	24366104	CF, 100k ohm
R319	24382561	OMF, 560 ohm, 1W
R321	24366223	CF, 22k ohm
R322	24366164	CF, 160k ohm
R323	24323109	OMF, 1 ohm, 2W
R327	24547479	FR, 4.7 ohm, 1W
R333	24366103	CF, 10k ohm
R334	24383561	OMF, 560 ohm, 2W
R371	24366471	CF, 470 ohm
R372	24366471	CF, 470 ohm
R373	24366101	CF, 100 ohm
R374	24366223	CF, 22k ohm
R375	24366274	CF, 270k ohm
R376	24366224	CF, 220k ohm
R377	24366104	CF, 100k ohm
R378	24366204	CF, 200k ohm
R379	24366155	CF, 1.5M ohm
R380	24366562	CF, 5600 ohm
R381	24366102	CF, 1k ohm
R390	24366273	CF, 27k ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24552432	OMF, 4300 ohm, 1/2W
R405	24366431	CF, 430 ohm
R408	24366682	CF, 6800 ohm
R409	24366434	CF, 430k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366391	CF, 390 ohm
R412	24366161	CF, 160 ohm
R416	24007631	Cement, 3600 ohm, 7W
R418	24382242	OMF, 2400 ohm, 1W
R419	24942390	CC, 39 ohm, 1/2W
R420	24009951	OMF, 1k ohm, 1W
R421	24366105	CF, 1M ohm
R422	24366102	CF, 1k ohm
R423(U101)	24552221	OMF, 220 ohm, 1/2W
R423(U902)	24366122	CF, 1200 ohm
R424	24366103	CF, 10k ohm
R425	24547399	FR, 3.9 ohm, 1W
R427	24366392	CF, 3900 ohm
R440	24552103	OMF, 10k ohm, 1/2W
R441	24552103	OMF, 10k ohm, 1/2W
R444	24323828	OMF, 0.82 ohm, 2W
R446	24532151	FR, 150 ohm, 1W
R448	24323338	OMF, 0.33 ohm, 2W
R501	24366100	CF, 10 ohm
R502	24366334	CF, 330k ohm
R504	24366391	CF, 390 ohm
R505	24366752	CF, 7500 ohm
R506	24366102	CF, 1k ohm
R507	24366822	CF, 8200 ohm
R508	24366391	CF, 390 ohm
R509	24366122	CF, 1200 ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366473	CF, 47k ohm
R519	24366514	CF, 510k ohm
R520	24366332	CF, 3300 ohm
R521	24366181	CF, 180 ohm
R522	24366185	CF, 1.8M ohm
R523	24366101	CF, 100 ohm
R524	24366183	CF, 18k ohm
R525	24366223	CF, 22k ohm
R526	24366102	CF, 1k ohm
R527	24366681	CF, 680 ohm

Location No.	Part No.	Description
CS81	24591562	PF, 5600pF
CS82	24633100	EL, 10μF, 16V
CS83	24633100	EL, 10μF, 16V
CS84	24591562	PF, 5600pF
CS85	24538333	PF, 0.033μF
CS86	24591392	PF, 3900pF
CS87	24538153	PF, 0.015μF
CS88	24538153	PF, 0.015μF
CS89	24636010	EL, 1μF, 50V
CS90	24633220	EL, 22μF, 16V
CS91	24636010	EL, 1μF, 50V
CV01	24232103	CD, 0.01μF, +80%, −20%
CV02	24203100	EL, 10μF, ±20%, 16V
CV03	24203100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24232103	CD, 0.01μF, +80%, −20%
CV06	24203100	EL, 10μF, ±20%, 16V
CV07	24636100	EL, 10μF, 50V
CV08	24203100	EL, 10μF, ±20%, 16V
CV09	24232103	CD, 0.01μF, +80%, −20%
CV10	24636100	EL, 10μF, 50V
CV11	24636100	EL, 10μF, 50V
CV12	24636100	EL, 10μF, 50V
CV13	24203100	EL, 10μF, ±20%, 16V
CV14	24203100	EL, 10μF, ±20%, 16V
CV15	24203100	EL, 10μF, ±20%, 16V
CV16	24212102	CD, 1000pF, ±10%
CV17	24212102	CD, 1000pF, ±10%
CV18	24212102	CD, 1000pF, ±10%
CV19	24212102	CD, 1000pF, ±10%
CV20	24212102	CD, 1000pF, ±10%
CV21	24212102	CD, 1000pF, ±10%
CV22	24212102	CD, 1000pF, ±10%
CV23	24202221	EL, 220μF, ±20%, 10V
CV24	24636100	EL, 10μF, 50V
CV25	24212102	CD, 1000pF, ±10%
CV26	24202221	EL, 220μF, ±20%, 10V
CV27	24636339	EL, 3.3μF, 50V
CV28	24202221	EL, 220μF, ±20%, 10V
CV29	24232103	CD, 0.01μF, +80%, −20%
CV30	24633100	EL, 10μF, 16V
CV31	24212102	CD, 1000pF, ±10%
CV32	24212102	CD, 1000pF, ±10%
CV33	24212102	CD, 1000pF, ±10%
CV34	24212102	CD, 1000pF, ±10%
CV36	24636100	EL, 10μF, 50V
CV37	24797220	EL, 22μF, 50V
CV39	24636478	EL, 0.47μF, 50V
CV40	24085981	EL, 10μF, ±20%, 16V
CV41	24085981	EL, 10μF, ±20%, 16V
CV42	24633100	EL, 10μF, 16V
CV43	24085981	EL, 10μF, ±20%, 16V
CV44	24633100	EL, 10μF, 16V
CV45	24636010	EL, 1μF, 50V
CV46	24636100	EL, 10μF, 50V
CV47	24794101	EL, 100μF, 16V
CV48	24636479	EL, 4.7μF, 50V
CV49	24436680	CD, 68pF
CV50	24436680	CD, 68pF
CV51	24436331	CD, 330pF
CV52	24436221	CD, 220pF
CV53	24436221	CD, 220pF
CV54	24538474	PF, 0.47μF
CV55	24763221	EL, 220μF, ±20%, 16V
CV56	24633100	EL, 10μF, 16V
CV57	24636010	EL, 1μF, 50V
CV58	24636010	EL, 1μF, 50V
CV59	24636010	EL, 1μF, 50V
CV60	24232103	CD, 0.01μF, +80%, −20%
CV61	24794101	EL, 100μF, 16V
CV62	24636010	EL, 1μF, 50V
CV63	24636010	EL, 1μF, 50V
CV64	24636010	EL, 1μF, 50V
CV65	24636010	EL, 1μF, 50V
CV66	24636010	EL, 1μF, 50V
CV67	24636010	EL, 1μF, 50V
CV69	24794101	EL, 100μF, 16V
CV70	24794101	EL, 100μF, 16V
CV71	24232103	CD, 0.01μF, +80%, −20%
CV72	24636100	EL, 10μF, 50V
CV73	24633470	EL, 47μF, 16V
CV74	24590104	PF, 0.1μF
CV75	24633100	EL, 10μF, 16V
CV76	24202221	EL, 220μF, ±20%, 10V
CV77	24212102	CD, 1000pF, ±10%
CV78	24212102	CD, 1000pF, ±10%
CV79	24203100	EL, 10μF, ±20%, 16V
CV80	24203100	EL, 10μF, ±20%, 16V
CV81	24203100	EL, 10μF, ±20%, 16V
CV82	24203100	EL, 10μF, ±20%, 16V
CV83	24203100	EL, 10μF, ±20%, 16V
CV85	24203100	EL, 10μF, ±20%, 16V
CV86	24203100	EL, 10μF, ±20%, 16V
CV87	24794221	EL, 220μF, 16V
CV88	24203100	EL, 10μF, ±20%, 16V
CV89	24212102	CD, 1000pF, ±10%
CV91	24212102	CD, 1000pF, ±10%
CV92	24202221	EL, 220μF, ±20%, 10V
CV93	24202221	EL, 220μF, ±20%, 10V
CV94	24202221	EL, 220μF, ±20%, 10V
CV95	24202221	EL, 220μF, ±20%, 10V
CV96	24636010	EL, 1μF, 50V
CV97	24636010	EL, 1μF, 50V
CV97	24636010	EL, 1μF, 50V
CV98	24550562	PF, 5600pF, 63V
CV98	24550562	PF, 5600pF, 63V
CV99	24550562	PF, 5600pF, 63V
CV99	24550562	PF, 5600pF, 63V
CW01	24794221	EL, 220μF, 16V
CW02	24203100	EL, 10μF, ±20%, 16V
CW03	24203470	EL, 47μF, ±20%, 16V
CW04	24203100	EL, 10μF, ±20%, 16V
CW05	24203470	EL, 47μF, ±20%, 16V
CW06	24590104	PF, 0.1μF
CW07	24590104	PF, 0.1μF
CW09	24636010	EL, 1μF, 50V
CW10	24636010	EL, 1μF, 50V
CW11	24636010	EL, 1μF, 50V
CW12	24232103	CD, 0.01μF, +80%, −20%
CW13	24633100	EL, 10μF, 16V
CW16	24590104	PF, 0.1μF
CW17	24763221	EL, 220μF, ±20%, 16V
CW20	24436150	CD, 15pF
CX02	24538474	PF, 0.47μF
CX03	24538474	PF, 0.47μF
CX04	24538474	PF, 0.47μF

Location No.	Part No.	Description
R528	24366750	CF, 75 ohm
R529	24366101	CF, 100 ohm
R530	24366101	CF, 100 ohm
R531	24366681	CF, 680 ohm
R532	24366473	CF, 47k ohm
R533	24366362	CF, 3600 ohm
R535	24366181	CF, 180 ohm
R537	24366362	CF, 3600 ohm
R538	24366201	CF, 200 ohm
R539	24366362	CF, 3600 ohm
R541	24366821	CF, 820 ohm
R542	24366241	CF, 240 ohm
R543	24366103	CF, 10k ohm
R544	24366101	CF, 100 ohm
R546	24366473	CF, 47k ohm
R547	24366102	CF, 1k ohm
R548	24366102	CF, 1k ohm
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24061589	VR, 10k ohm, 1/8W
R558	24061589	VR, 10k ohm, 1/8W
R559	24061589	VR, 10k ohm, 1/8W
R565	24366560	CF, 56 ohm
R566	24366560	CF, 56 ohm
R567	24366560	CF, 56 ohm
R568	24366102	CF, 1k ohm
R570	24366362	CF, 3600 ohm
R571	24366362	CF, 3600 ohm
R572	24366362	CF, 3600 ohm
R580	24366271	CF, 270 ohm
R581	24366121	CF, 120 ohm
R591	24009974	OMF, 15k ohm, 2W
R592	24009974	OMF, 15k ohm, 2W
R593	24009974	OMF, 15k ohm, 2W
R601	24366223	CF, 22k ohm
R602(U902)	24366223	CF, 22k ohm
R602(UG01)	24872561	Chip, 560 ohm, 1/16W
R603	24366302	CF, 3k ohm
R604(U902)	24366104	CF, 100k ohm
R604(UG01)	24872563	Chip, 56k ohm, 1/16W
R605(U902)	24321109	OMF, 1 ohm, 1/2W
R605(UG01)	24872563	Chip, 56k ohm, 1/16W
R606(U902)	24366822	CF, 8200 ohm
R606(UG01)	24872102	Chip, 1000 ohm, 1/16W
R607	24872102	Chip, 1000 ohm, 1/16W
R609	24872102	Chip, 1000 ohm, 1/16W
R610(U902)	24366683	CF, 68k ohm
R610(UG01)	24872102	Chip, 1000 ohm, 1/16W
R611(U902)	24366223	CF, 22k ohm
R611(UG01)	24872101	Chip, 100 ohm, 1/16W
R612	24366223	CF, 22k ohm
R613	24366683	CF, 68k ohm
R614	24366302	CF, 3k ohm
R615(U902)	24366104	CF, 100k ohm
R615(UG01)	24872101	Chip, 100 ohm, 1/16W
R616(U101)	24872183	Chip, 18k ohm, 1/16W
R616(U902)	24366473	CF, 47k ohm
R617(U101)	24872242	Chip, 2400 ohm, 1/16W
R617(U902)	24366473	CF, 47k ohm
R618(U101)	24366822	CF, 8200 ohm
R618(U902)	24872561	Chip, 560 ohm, 1/16W
R619	24872271	Chip, 270 ohm, 1/16W
R620(U101)	24872821	Chip, 820 ohm, 1/16W
R620(U902)	24366223	CF, 22k ohm

Location No.	Part No.	Description
R621	24366223	CF, 22k ohm
R622	24366302	CF, 3k ohm
R623(U902)	24366104	CF, 100k ohm
R623(UG01)	24872103	Chip, 10k ohm, 1/16W
R624(U902)	24321109	OMF, 1 ohm, 1/2W
R624(UG01)	24872103	Chip, 10k ohm, 1/16W
R625(U902)	24366103	CF, 10k ohm
R625(UG01)	24872102	Chip, 1000 ohm, 1/16W
R626	24872102	Chip, 1000 ohm, 1/16W
R627	24366223	CF, 22k ohm
R628	24366105	CF, 1M ohm
R629	24366683	CF, 68k ohm
R630	24366223	CF, 22k ohm
R631	24366683	CF, 68k ohm
R632	24366302	CF, 3k ohm
R633	24321109	OMF, 1 ohm, 1/2W
R634	24366473	CF, 47k ohm
R635	24366473	CF, 47k ohm
R636	24366103	CF, 10k ohm
R638	24366223	CF, 22k ohm
R641	24366103	CF, 10k ohm
R642	24366103	CF, 10k ohm
R643	24366473	CF, 47k ohm
R645	24366103	CF, 10k ohm
R648	24366223	CF, 22k ohm
R649	24321109	OMF, 1 ohm, 1/2W
R660	24366223	CF, 22k ohm
R661	24366104	CF, 100k ohm
R662	24366223	CF, 22k ohm
R665	24552160	OMF, 16 ohm, 1/2W
R666	24552160	OMF, 16 ohm, 1/2W
R670	24366103	CF, 10k ohm
R671	24366102	CF, 1k ohm
R672	24366103	CF, 10k ohm
R673	24366223	CF, 22k ohm
R681	24872223	Chip, 22k ohm, 1/16W
R682	24872105	Chip, 1M ohm, 1/16W
R683	24872272	Chip, 2700 ohm, 1/16W
R684	24872222	Chip, 2200 ohm, 1/16W
R685	24872102	Chip, 1000 ohm, 1/16W
R686	24552431	OMF, 430 ohm, 1/2W
R801	24004914	CC, 5.6M ohm, 1/2W
R805	24007864	Cement, 3 ohm, 15W
R810	24384823	OMF, 82k ohm, 3W
R812	24321689	OMF, 6.8 ohm, 1/2W
R813	24553471	OMF, 470 ohm, 1W
R814	24321338	OMF, 0.33 ohm, 1/2W
R815	24366104	CF, 100k ohm
R816	24367123	CF, 12k ohm, ±2%
R817	24007952	Cement, 6.8 ohm, 5W
R818	24366331	CF, 330 ohm
R819	24327104	MF, 100k ohm, ±1%, 1/4W
R820	24366100	CF, 10 ohm
R821	24366101	CF, 100 ohm
R822	24322398	OMF, 0.39 ohm, 1W
R823	24007738	Cement, 330 ohm, 10W
R824	24322398	OMF, 0.39 ohm, 1W
R825	24366101	CF, 100 ohm
R826	24366331	CF, 330 ohm
R827	24007554	Cement, 6800 ohm, 5W
R828	24366103	CF, 10k ohm
R829	24383103	OMF, 10k ohm, 2W
R830	24366103	CF, 10k ohm
R831	24366102	CF, 1k ohm

Location No.	Part No.	Description
R832	24322338	OMF, 0.33 ohm, 1W
R833	24327134	MF, 130k ohm, ±1%, 1/4W
R834	24327222	MF, 2200 ohm, ±1%, 1/4W
R835	24366823	CF, 82k ohm
R836	24327913	MF, 91k ohm, ±1%, 1/4W
R837	24381100	OMF, 10 ohm, 1/2W
R838	24366103	CF, 10k ohm
R839	24383153	OMF, 15k ohm, 2W
R840	24366103	CF, 10k ohm
R842	24557109	FR, 1 ohm, ±10%, 1W
R843	24366332	CF, 3300 ohm
R844	24366103	CF, 10k ohm
R845	24366332	CF, 3300 ohm
R846	24366151	CF, 150 ohm
R847	24366102	CF, 1k ohm
R848	24366102	CF, 1k ohm
R851	24066924	VR, 50k ohm, 1/10W
R852	24066925	VR, 20k ohm, 1/10W
R860	24366182	CF, 1800 ohm
R861	24322228	OMF, 0.22 ohm, 1W
R862	24000894	FR, 1 ohm, 1W
R863	24383152	OMF, 1500 ohm, 2W
R864	24383102	OMF, 1k ohm, 2W
R865	24366222	CF, 2200 ohm
R867	24366101	CF, 100 ohm
R868	24366103	CF, 10k ohm
R869	24366102	CF, 1k ohm
R870	24366102	CF, 1k ohm
R871	24366222	CF, 2200 ohm
R872	24366103	CF, 10k ohm
R873	24366103	CF, 10k ohm
R874	24366472	CF, 4700 ohm
R875	24381100	OMF, 10 ohm, 1/2W
R876	24366152	CF, 1500 ohm
⚠ R890	24000875	PTC Thermistor, 18 ohm, ±20%, 290V
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
R920	24000880	FR, 5.1 ohm, 1W
RA01	24366183	CF, 18k ohm
RA02	24366562	CF, 5600 ohm
RA03	24366103	CF, 10k ohm
RA05	24366102	CF, 1k ohm
RA07	24366222	CF, 2200 ohm
RA10	24366104	CF, 100k ohm
RA11	24366102	CF, 1k ohm
RA13	24366102	CF, 1k ohm
RA14	24366102	CF, 1k ohm
RA15	24366102	CF, 1k ohm
RA17	24366103	CF, 10k ohm
RA18	24366103	CF, 10k ohm
RA19	24366102	CF, 1k ohm
RA20	24366103	CF, 10k ohm
RA21	24366561	CF, 560 ohm
RA22	24366561	CF, 560 ohm
RA23	24366103	CF, 10k ohm
RA29	24366103	CF, 10k ohm
RA33	24366102	CF, 1k ohm
RA34	24366102	CF, 1k ohm
RA41	24366472	CF, 4700 ohm
RA43	24366472	CF, 4700 ohm
RA44	24366472	CF, 4700 ohm
RA45	24366183	CF, 18k ohm

Location No.	Part No.	Description
RA46	24366123	CF, 12k ohm
RA47	24366152	CF, 1500 ohm
RA48	24366102	CF, 1k ohm
RA49	24366102	CF, 1k ohm
RA53	24366332	CF, 3300 ohm
RA54	24366332	CF, 3300 ohm
RA55	24366332	CF, 3300 ohm
RA56	24366123	CF, 12k ohm
RA57	24366392	CF, 3900 ohm
RA58	24366152	CF, 1500 ohm
RA59	24366392	CF, 3900 ohm
RA60	24366392	CF, 3900 ohm
RA61	24366102	CF, 1k ohm
RA62	24366102	CF, 1k ohm
RA63	24366102	CF, 1k ohm
RA66	24366102	CF, 1k ohm
RA67	24366153	CF, 15k ohm
RA68	24366332	CF, 3300 ohm
RA70	24366561	CF, 560 ohm
RA71	24366564	CF, 560k ohm
RA72	24366563	CF, 56k ohm
RA73	24366123	CF, 12k ohm
RA74	24366392	CF, 3900 ohm
RA75	24366103	CF, 10k ohm
RA76	24366473	CF, 47k ohm
RA77	24366152	CF, 1500 ohm
RA78	24366103	CF, 10k ohm
RA79	24366153	CF, 15k ohm
RA81	24366101	CF, 100 ohm
RA82	24366101	CF, 100 ohm
RA84	24366101	CF, 100 ohm
RA85	24366101	CF, 100 ohm
RA87	24366103	CF, 10k ohm
RA89	24366471	CF, 470 ohm
RA90	24366471	CF, 470 ohm
RA91	24366223	CF, 22k ohm
RA92	24366472	CF, 4700 ohm
RA93	24366471	CF, 470 ohm
RB01	24366472	CF, 4700 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366473	CF, 47k ohm
RB10	24366222	CF, 2200 ohm
RB11	24890331	CF, 330 ohm, 1/4W
RB12	24366331	CF, 330 ohm
RF01	24872101	Chip, 100 ohm, 1/16W
RF02	24872152	Chip, 1500 ohm, 1/16W
RF03	24872103	Chip, 10k ohm, 1/16W
RF05	24872101	Chip, 100 ohm, 1/16W
RF06	24872152	Chip, 1500 ohm, 1/16W
RF07	24872101	Chip, 100 ohm, 1/16W
RF08	24872152	Chip, 1500 ohm, 1/16W
RF09	24872101	Chip, 100 ohm, 1/16W
RF10	24872152	Chip, 1500 ohm, 1/16W
RF11	24872683	Chip, 68k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872122	Chip, 1200 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872331	Chip, 330 ohm, 1/16W
RF19	24872101	Chip, 100 ohm, 1/16W
RF20	24872331	Chip, 330 ohm, 1/16W
RF24	24872332	Chip, 3300 ohm, 1/16W

Location No.	Part No.	Description
RF35	24872472	Chip, 47 ohm, 1/16W
RG01(U904)	24366221	CF, 220 ohm
RG01(UG01)	24872223	Chip, 22k ohm, 1/16W
RG02(U904)	24366221	CF, 220 ohm
RG02(UG01)	24872223	Chip, 22k ohm, 1/16W
RG03	24872472	Chip, 47 ohm, 1/16W
RG04	24872512	Chip, 5100 ohm, 1/16W
RG06(U902)	24366103	CF, 10k ohm
RG06(UG01)	24872102	Chip, 1000 ohm, 1/16W
RG07(U902)	24366103	CF, 10k ohm
RG07(UG01)	24872471	Chip, 470 ohm, 1/16W
RG08	24872512	Chip, 5100 ohm, 1/16W
RG09	24872101	Chip, 100 ohm, 1/16W
RG10	24872103	Chip, 10k ohm, 1/16W
RG11	24872223	Chip, 22k ohm, 1/16W
RG12	24872103	Chip, 10k ohm, 1/16W
RG13	24872102	Chip, 1000 ohm, 1/16W
RG14	24872102	Chip, 1000 ohm, 1/16W
RG15	24872102	Chip, 1000 ohm, 1/16W
RG16	24872103	Chip, 10k ohm, 1/16W
RG17	24871223	Chip, 22k ohm, 1/8W
RG18	24871223	Chip, 22k ohm, 1/8W
RG19	24872103	Chip, 10k ohm, 1/16W
RG20	24872103	Chip, 10k ohm, 1/16W
RG21	24552101	OMF, 100 ohm, 1/2W
RG22	24871101	Chip, 100 ohm, 1/8W
RG23	24871101	Chip, 100 ohm, 1/8W
RG26	24872101	Chip, 100 ohm, 1/16W
RG27	24872101	Chip, 100 ohm, 1/16W
RG28	24872223	Chip, 22k ohm, 1/16W
RG29	24872103	Chip, 10k ohm, 1/16W
RG30	24872272	Chip, 2700 ohm, 1/16W
RG31	24872272	Chip, 2700 ohm, 1/16W
RG32	24872512	Chip, 5100 ohm, 1/16W
RG50	24066952	VR, 10k ohm, 1/10W
RM03	24366272	CF, 2700 ohm
RM04	24366432	CF, 4300 ohm
RM05	24366221	CF, 220 ohm
RM06	24366271	CF, 270 ohm
RM07	24941475	CC, 4.7M ohm, 1/4W
RN01	24366101	CF, 100 ohm
RN02	24366201	CF, 200 ohm
RN03	24366473	CF, 47k ohm
RN04	24366471	CF, 470 ohm
RN05	24366222	CF, 2200 ohm
RN06	24366182	CF, 1800 ohm
RN07	24366103	CF, 10k ohm
RN08	24366185	CF, 1.8M ohm
RN09	24366223	CF, 22k ohm
RN10	24366103	CF, 10k ohm
RN11	24366103	CF, 10k ohm
RN12	24366473	CF, 47k ohm
RN13	24366473	CF, 47k ohm
RN14	24366103	CF, 10k ohm
RN15	24366332	CF, 3300 ohm
RN21	24366102	CF, 1k ohm
RS17	24872221	Chip, 220 ohm, 1/16W
RS66	24872332	Chip, 3300 ohm, 1/16W
RS67	24872104	Chip, 100k ohm, 1/16W
RS68	24872332	Chip, 3300 ohm, 1/16W
RS69	24872104	Chip, 100k ohm, 1/16W
RS79	24872101	Chip, 100 ohm, 1/16W
RS80	24872101	Chip, 100 ohm, 1/16W
RS81	24872332	Chip, 3300 ohm, 1/16W

Location No.	Part No.	Description
RS82	24872682	Chip, 6800 ohm, 1/16W
RS83	24872332	Chip, 3300 ohm, 1/16W
RS84	24872682	Chip, 6800 ohm, 1/16W
RS87	24872101	Chip, 100 ohm, 1/16W
RS88	24872101	Chip, 100 ohm, 1/16W
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV11	24366101	CF, 100 ohm
RV12	24366101	CF, 100 ohm
RV13	24366101	CF, 100 ohm
RV14	24366101	CF, 100 ohm
RV15	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366104	CF, 100k ohm
RV18	24366104	CF, 100k ohm
RV19	24366104	CF, 100k ohm
RV20	24366104	CF, 100k ohm
RV21	24366104	CF, 100k ohm
RV22	24366104	CF, 100k ohm
RV23	24366104	CF, 100k ohm
RV24	24366471	CF, 470 ohm
RV25	24366331	CF, 330 ohm
RV26	24366680	CF, 68 ohm
RV27	24366910	CF, 91 ohm
RV28	24366680	CF, 68 ohm
RV31	24366820	CF, 82 ohm
RV32	24366820	CF, 82 ohm
RV33	24366104	CF, 100k ohm
RV34	24366104	CF, 100k ohm
RV35	24366104	CF, 100k ohm
RV36	24366104	CF, 100k ohm
RV37	24366101	CF, 100 ohm
RV38	24366101	CF, 100 ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366750	CF, 75 ohm
RV44	24366750	CF, 75 ohm
RV45	24366750	CF, 75 ohm
RV46	24366102	CF, 1k ohm
RV47	24366101	CF, 100 ohm
RV49	24366474	CF, 470k ohm
RV50	24367562	CF, 5600 ohm, ±2%
RV51	24366512	CF, 5100 ohm
RV52	24366302	CF, 3k ohm
RV53	24366302	CF, 3k ohm
RV54	24366101	CF, 100 ohm
RV55	24366101	CF, 100 ohm
RV56	24552161	OMF, 160 ohm, 1/2W
RV57	24367122	CF, 1200 ohm, ±2%
RV58	24366183	CF, 18k ohm
RV59	24366273	CF, 27k ohm
RV60	24552820	OMF, 82 ohm, 1/2W
RV61	24366303	CF, 30k ohm
RV63	24366101	CF, 100 ohm
RV65	24366101	CF, 100 ohm

Location No.	Part No.	Description
RV68	24366101	CF, 100 ohm
RV69	24366101	CF, 100 ohm
RV73	24366910	CF, 91 ohm
RV74	24366103	CF, 10k ohm
RV75	24366821	CF, 820 ohm
RV76	24366821	CF, 820 ohm
RV77	24366101	CF, 100 ohm
RV78	24366101	CF, 100 ohm
RV79	24552391	OMF, 390 ohm, 1/2W
RV80	24366103	CF, 10k ohm
RV81	24366473	CF, 47k ohm
RV82	24366621	CF, 620 ohm
RV83	24366621	CF, 620 ohm
RV84	24366621	CF, 620 ohm
RV85	24366621	CF, 620 ohm
RV86	24366101	CF, 100 ohm
RV88	24366473	CF, 47k ohm
RV89	24366473	CF, 47k ohm
RV90	24366223	CF, 22k ohm
RV91	24366391	CF, 390 ohm
RV93	24366102	CF, 1k ohm
RV96	24366133	CF, 13k ohm
RV97	24366242	CF, 2400 ohm
RV98	24366222	CF, 2200 ohm
RV99	24366223	CF, 22k ohm
RW01	24366101	CF, 100 ohm
RW02	24366101	CF, 100 ohm
RW03	24366471	CF, 470 ohm
RW04	24366101	CF, 100 ohm
RW05	24366331	CF, 330 ohm
RW07	24366101	CF, 100 ohm
RW08	24366101	CF, 100 ohm
RW09	24553680	OMF, 68 ohm, 1W
RW10	24366680	CF, 68 ohm
RW11	24366102	CF, 1k ohm
RW12	24366102	CF, 1k ohm
RW13	24366102	CF, 1k ohm
RW14	24366102	CF, 1k ohm
RW15	24366104	CF, 100k ohm
RW16	24366104	CF, 100k ohm
RW18	24366103	CF, 10k ohm
RW19	24366102	CF, 1k ohm
RW20	24366102	CF, 1k ohm
RW21	24366102	CF, 1k ohm
RW22	24366102	CF, 1k ohm
RW24	24366102	CF, 1k ohm
RW25	24366102	CF, 1k ohm
RW26	24366104	CF, 100k ohm
RW27	24366103	CF, 10k ohm
RW28	24366472	CF, 4700 ohm
RW29	24366104	CF, 100k ohm
RW30	24366103	CF, 10k ohm
RW31	24366332	CF, 3300 ohm
RW32	24366332	CF, 3300 ohm
RW33	24366223	CF, 22k ohm
RW34	24366104	CF, 100k ohm
RW35	24366560	CF, 56 ohm
RW36	24366223	CF, 22k ohm
RW37	24366104	CF, 100k ohm
RW38	24366560	CF, 56 ohm
RW39	24366103	CF, 10k ohm
RW40	24366103	CF, 10k ohm
RW44	24366101	CF, 100 ohm
RW52	24366155	CF, 1.5M ohm

Location No.	Part No.	Description
RW53	24366155	CF, 1.5M ohm
RW54	24366155	CF, 1.5M ohm
RW55	24366101	CF, 100 ohm
RW56	24366223	CF, 22k ohm
RW57	24366223	CF, 22k ohm
RW58	24366223	CF, 22k ohm
RW59	24366161	CF, 160 ohm
RW60	24366161	CF, 160 ohm
RW61	24366161	CF, 160 ohm
RW62	24366102	CF, 1k ohm
RW63	24366102	CF, 1k ohm
RW64	24366101	CF, 100 ohm
RW71	24366222	CF, 2200 ohm
RW72	24366112	CF, 1100 ohm
RW73	24366272	CF, 2700 ohm
RW74	24366912	CF, 9100 ohm
RW75	24366302	CF, 3k ohm
RW76	24366472	CF, 4700 ohm
RW78	24366472	CF, 4700 ohm
RW79	24366750	CF, 75 ohm
RW80	24366102	CF, 1k ohm
RW81	24366182	CF, 1800 ohm
RW82	24366820	CF, 82 ohm
RW83	24552161	OMF, 160 ohm, 1/2W
RW84	24546919	FR, 9.1 ohm, 1/2W
RW85	24366102	CF, 1k ohm
RW86	24366102	CF, 1k ohm
RW87	24366102	CF, 1k ohm
RW88	24366102	CF, 1k ohm
RW90	24366153	CF, 15k ohm
RW91	24366103	CF, 10k ohm
RW92	24366393	CF, 39k ohm
RX13	24366102	CF, 1k ohm

COILS & TRANSFORMERS

Location No.	Part No.	Description
L101	23237987	Coil, Peaking, TRF4100AC
L102	23262680	Coil, IF, TRF1148D
L103	23237986	Coil, Peaking, TRF4120AC
L107	23237987	Coil, Peaking, TRF4100AC
L151	23262668	Coil, IF, TRF1162T
L153	23262813	Coil, IF, TRF1077D
L161	23262951	Coil, RF Choke, TRF1019
L162	23232880	Coil, Variable, TRF3505D
L163	23262843	Coil, PIF Trap, TRF1457D
L165	23237999	Coil, Peaking, TRF4109AC
L311	23103901	Coil (Ferrite Bead), TEM2017
L315	23238922	Coil, Peaking, TRF4100AC
L370	23289101	Coil, Peaking, TRF4101AF
L405	23221685	Coil, Choke, TLN3193
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23233068	Coil, Linearity, TLN2117
L412	23221936	Coil, Choke, TLN3041
L421	23211897	Coil, Choke, AT4043/100T
L422	23221738	Coil, Choke, TLN3132D
L423	23211896	Coil, Choke, AT4043/60T
⚠ L462	23227259	Deflection Yoke, YS-58543
L503	23237987	Coil, Peaking, TRF4100AC
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289100	Coil, Peaking, TRF4100AF
L601	23221685	Coil, Choke, TLN3193
L602	23262821	Coil, Peaking, TRF4100AF
L604	23237986	Coil, Peaking, TRF4120AC

Location No.	Part No.	Description
L651	23232942	Coil, Variable, TRF3077
L652	23232942	Coil, Variable, TRF3077
L662	23232946	Coil, Variable, TRF3073D
L802	23221077	Coil, Choke, TLN1015S
L803	23221747	Coil, Choke, TRF9253D
L804	23221747	Coil, Choke, TRF9253D
L805	23222694	Coil, Horiz., TLN2026
L806	23103859	Coil (Ferrite Bead), TEM2011
L807	23103859	Coil (Ferrite Bead), TEM2011
L808	23222694	Coil, Horiz., TLN2026
L809	23222694	Coil, Horiz., TLN2026
L810	23222694	Coil, Horiz., TLN2026
L811	23103859	Coil (Ferrite Bead), TEM2011
L812	23222694	Coil, Horiz., TLN2026
L813	23103859	Coil (Ferrite Bead), TEM2011
L814	23103859	Coil (Ferrite Bead), TEM2011
L815	23238922	Coil, Peaking, TRF4100AC
⚠ L901	23200749	Coil, Degaussing, TSB2247
LA01	23238934	Coil, Peaking, TRF4109AC
LB01	23262742	Coil, IF, TRF1129
LB02	23103941	Coil (Ferrite Bead), TEM2000
LB03	23103941	Coil (Ferrite Bead), TEM2000
LB04	23103859	Coil (Ferrite Bead), TEM2011
LB05	23221685	Coil, Choke, TLN3193
LF02	23238920	Coil, Peaking, TRF4150AC
LF03	23238714	Coil, Peaking, TRF4100AJ
LF04	23238714	Coil, Peaking, TRF4100AJ
LF05	23238714	Coil, Peaking, TRF4100AJ
LG01	23262808	Coil, IF, TRF1082
LG02	23289100	Coil, Peaking, TRF4100AF
LG03	23237987	Coil, Peaking, TRF4100AC
LM01	23262797	Coil, IF, TRF1093D
LM02	23250865	Coil, IF, TRF5414DA
LM03	23250865	Coil, IF, TRF5414DA
LM04	23262798	Coil, IF, TRF1092D
LN01	23238920	Coil, Peaking, TRF4150AC
LN02	23238918	Coil, Peaking, TRF4220AC
LV01	23237979	Coil, Peaking, TRF4470AC
LV02	23237979	Coil, Peaking, TRF4470AC
⚠ T401	23224997	Transformer, Horiz. Drive, TLN1027
⚠ T461	23236253	Transformer, Flyback, 470036-62
T801	23211934	Line Filter, TRF3133
T802	23211928	Line Filter, TRF3129
⚠ T803	23217077	Transformer, Converter, TPW3186
T804	23224917	Transformer, Separation, TLN2122
T805	23211922	Line Filter, TRF3127

SEMICONDUCTORS

Location No.	Part No.	Description
IC101	23318437	IC, μPC1820CA
IC303	23318301	IC, TDA8170
IC371	B0383680	IC, TA8739P
IC408	23319314	IC, μPC2412HF
IC501	B0383970	IC, TA8783N
IC601	23318390	IC, TDA4480-2
IC608	23319009	IC, TDA2030A
IC609	23319009	IC, TDA2030A
IC610	23319009	IC, TDA2030A
IC611	23319009	IC, TDA2030A
IC803	23318411	IC, TEA2164
IC806	23318299	IC, L78MR05-FA
IC807	23318412	IC, TEA5170
ICA01	23319089	IC, CXP80424-107
ICA07	23319016	IC, μPD6254CX
ICA08	23319015	IC, μPD6252C
ICF01	23318097	IC, SAA5231
ICF02	23318383	IC, SAA5243P/E
ICF03	23319001	IC, IMS1630LP12
ICG01	B0383400	IC, TA8710S
ICG02	B0470522	IC, TC4052BP
ICG03	23319007	IC, TDA8415
ICS18	23319008	IC, TDA8421
ICV01	B0383940	IC, TA8777N
ICV06	B0383930	IC, TA8775N
ICV07	23318055	IC, TDA4565
ICV08	23319425	IC, CXA1420P
ICV14	B0372960	IC, TA78L009AP
ICV21	B0372960	IC, TA78L009AP
ICV22	B0372960	IC, TA78L009AP
Q102	A6541137	Transistor, 2SA1162-Y
Q103	A6339829	Transistor, 2SC2859Y-CNR
Q161	A6357138	Transistor, 2SC3125 FA-6
Q162	A6357138	Transistor, 2SC3125 FA-6
Q402	A678971D	Transistor, 2SC1569 FA-5
⚠ Q404	23314376	Transistor, ON4408
Q406	23314229	Transistor, 2SD1378-Q
Q421	23114632	Transistor, BC547B
Q422	A6358055	Transistor, 2SC3182N FA-1
Q502	23114689	Transistor, BC547A
Q503	23114691	Transistor, BC557A
Q505	23114693	Transistor, BF871
Q506	23114689	Transistor, BC547A
Q507	23114693	Transistor, BF871
Q508	23114689	Transistor, BC547A
Q509	23114693	Transistor, BF871
Q510	23114689	Transistor, BC547A
Q511	23114689	Transistor, BC547A
Q514	23114688	Transistor, BC327
Q516	23114689	Transistor, BC547A
Q601	A6342200	Transistor, 2SC2878-A
Q602	A6335477	Transistor, 2SC2712-Y
Q602	23114691	Transistor, BC557A
Q604	23114691	Transistor, BC557A
Q605	A6342200	Transistor, 2SC2878-A
Q606	A6342200	Transistor, 2SC2878-A
Q607	A6342200	Transistor, 2SC2878-A
Q607	A6335477	Transistor, 2SC2712-Y
Q608	A6335477	Transistor, 2SC2712-Y
Q802	23114632	Transistor, BC547B
⚠ Q804	A6366908	Transistor, 2SC4288A FA-1
Q805	23114632	Transistor, BC547B
Q809	23114632	Transistor, BC547B
Q810	A6328333	Transistor, 2SC2383-Y
Q811	23114546	Transistor, BC557B
Q812	23314374	Transistor, BD945
Q813	A6845743	Transistor, 2SD717-Y
Q814	A6546310	Transistor, 2SA1297Y
Q815	23114632	Transistor, BC547B
Q816	A6867970	Transistor, 2SD1405-BL
Q817	A6321240	Transistor, 2SC2120-Y
QA02	A6342200	Transistor, 2SC2878-A
QA03	23114689	Transistor, BC547A
QA04	23114689	Transistor, BC547A
QA06	23114689	Transistor, BC547A
QA09	23114691	Transistor, BC557A

Location No.	Part No.	Description
QA10	23114689	Transistor, BC547A
QA11	23114691	Transistor, BC557A
QA12	A6342200	Transistor, 2SC2878-A
QA90	23114689	Transistor, BC547A
QB01	23114689	Transistor, BC547A
QB02	23114689	Transistor, BC547A
QF07	A6335477	Transistor, 2SC2712-Y
QG01	23114689	Transistor, BC547A
QG02	23114689	Transistor, BC547A
QG04	A6335477	Transistor, 2SC2712-Y
QG05	A6335477	Transistor, 2SC2712-Y
QG06	A6335477	Transistor, 2SC2712-Y
QG07	A6335477	Transistor, 2SC2712-Y
QG08	A6335477	Transistor, 2SC2712-Y
QN13	23114689	Transistor, BC547A
QN14	23114689	Transistor, BC547A
QN15	23114689	Transistor, BC547A
QV02	23114691	Transistor, BC557A
QV03	23114689	Transistor, BC547A
QV04	23114689	Transistor, BC547A
QV05	23114689	Transistor, BC547A
QV10	23114689	Transistor, BC547A
QV12	23114691	Transistor, BC557A
QV13	23114691	Transistor, BC557A
QV15	23114691	Transistor, BC557A
QV18	23114689	Transistor, BC547A
QV19	23114689	Transistor, BC547A
QV20	23114689	Transistor, BC547A
QW31	23114689	Transistor, BC547A
QW32	23114689	Transistor, BC547A
QW33	23114689	Transistor, BC547A
QW34	23114689	Transistor, BC547A
D108	23115878	Diode, Zener, μPC574J(L)
D241	A7150041	Diode, 1SS104
D302	23118479	Diode, BYD33J
D303	23118102	Diode, Zener, ZPY-6.8
D305	23118479	Diode, BYD33J
D307	23115599	Diode, 1N4148
D310	24000255	Diode, SC570A
D401	A7116925	Diode, Zener, 04AZ9.1Z
D402	A7118215	Diode, Zener, 04AZ33-Y
D403	A7117215	Diode, Zener, 04AZ12Y
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D409	A7117015	Diode, Zener, 04AZ10Y
D410	A7116815	Diode, Zener, 04AZ8.2Y
D415	23115599	Diode, 1N4148
D440	23118995	Diode, BY228
D441	23118994	Diode, BYW95C
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D596	23115599	Diode, 1N4148
D601	23115599	Diode, 1N4148
D602	23118479	Diode, BYD33J
D603	23115599	Diode, 1N4148
D604	23118479	Diode, BYD33J
D605	23115599	Diode, 1N4148
D606	23118479	Diode, BYD33J
D607	23115599	Diode, 1N4148
D608	23118479	Diode, BYD33J
D609	23115599	Diode, 1N4148
D610	A7150258	Diode, 1SS176
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148

Location No.	Part No.	Description
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D803	23316275	Diode, RBV606 LF-A
D807	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23118479	Diode, BYD33J
D810	23118479	Diode, BYD33J
D812	23118479	Diode, BYD33J
D813	23118479	Diode, BYD33J
D814	23118479	Diode, BYD33J
D815	23118479	Diode, BYD33J
D816	23118479	Diode, BYD33J
D817	23118451	Diode, RU4A
D818	23118338	Diode, RU4AM LF-K2
D819	23118052	Diode, RU4Z
D820	23115599	Diode, 1N4148
D821	23115599	Diode, 1N4148
D823	23115599	Diode, 1N4148
D824	23115599	Diode, 1N4148
D825	A7116415	Diode, Zener, 04AZ5.6Y
D826	23118052	Diode, RU4Z
D827	A7117305	Diode, Zener, 04AZ13X
D828	23118052	Diode, RU4Z
D829	23118052	Diode, RU4Z
D830	23115599	Diode, 1N4148
D832	A7116625	Diode, Zener, 04AZ6.8Z
D833	23118479	Diode, BYD33J
D836	23115599	Diode, 1N4148
D838	23115599	Diode, 1N4148
D839	23115599	Diode, 1N4148
D840	A7116415	Diode, Zener, 04AZ5.6Y
D841	23118479	Diode, BYD33J
D842	23115599	Diode, 1N4148
DA01	A7116405	Diode, Zener, 04AZ5.6X
DA04	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA07	23115599	Diode, 1N4148
DA08	23115599	Diode, 1N4148
DA12	23115599	Diode, 1N4148
DA13	23115599	Diode, 1N4148
DA18	23115599	Diode, 1N4148
DA20	23115599	Diode, 1N4148
DB01	23115599	Diode, 1N4148
DB02	23115604	Diode, Zener, ZPD6.2
DB03	23115604	Diode, Zener, ZPD6.2
DB04	23115604	Diode, Zener, ZPD6.2
DB05	23115604	Diode, Zener, ZPD6.2
DB06	23115604	Diode, Zener, ZPD6.2
DB07	23115604	Diode, Zener, ZPD6.2
DB50	23318436	Diode (LED), MV53124A, Yellow
DE50	23118969	Diode (LED), MV57124, Red
DN01	A7288601	Diode, 1S2186 FA-1
DN02	A7288601	Diode, 1S2186 FA-1
DN11	A7288601	Diode, 1S2186 FA-1
DN12	A7288601	Diode, 1S2186 FA-1
DS50	23318436	Diode (LED), MV53124A, Yellow
DT50	23118969	Diode (LED), MV57124, Red
DV02	23115599	Diode, 1N4148
DV03	23115599	Diode, 1N4148
DV04	A7116315	Diode, Zener, 04AZ5.1Y
DV05	23115599	Diode, 1N4148
DV06	23115599	Diode, 1N4148

Location No.	Part No.	Description
DV07	23115599	Diode, 1N4148
DV10	23118522	Diode, Zener, RD7.5ES-B3
DV11	23115599	Diode, 1N4148

MISCELLANEOUS

Location No.	Part No.	Description
B121	23712306	Screw, PP3X.5X6SZN
⚠ F801	23144898	Fuse, 3.15A
F801A	23165102	Fuse Holder
K901	23120371	Remote Sensor, IR-9106-K
P515	23367392	Plug, 3P
P604	23164561	Plug, 5P
P661	23363607	Headphone Jack, 3.5mm
⚠ P801	23176705	Power Cord
PF02	23367677	Plug, 4P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23161702	Terminal, 8P
PH04	23363872	Pin Jack, Yellow
PH05	23363871	Pin Jack, Red
PH06	23363873	Pin Jack, White
PH07	23363872	Pin Jack, Yellow
PH08	23363871	Pin Jack, Red
PH09	23363873	Pin Jack, White
PH10	23363872	Pin Jack, Yellow
PH11	23363871	Pin Jack, Red
PH12	23363873	Pin Jack, White
PH13	23365361	Jack, 4P
PH14	23363871	Pin Jack, Red
PH15	23363873	Pin Jack, White
PS02	23367684	Plug, 11P
PV01A	23902649	Socket, 9P
PV01B	23367721	Connector, 9P
PV02A	23902649	Socket, 9P
PV02B	23367721	Connector, 9P
PV03A	23902649	Socket, 9P
PV03B	23367721	Connector, 9P
S501	23145226	Switch, Push, 1C1P
S502	23145226	Switch, Push, 1C1P
S503	23145226	Switch, Push, 1C1P
S504	23145226	Switch, Push, 1C1P
⚠ S801	23145434	Switch, Power, 2C2P
S810	23146946	Switch, Power, 2C2P
SV01	23145364	Switch, Slide, 1C2P
SV02	23145355	Switch, Slide, 4C2P
SV03	23145355	Switch, Slide, 4C2P
⚠ V901A	23902019	Socket, CRT, 10P
W661	23351046	Speaker, SPK-1319, 70x130mm, 8 ohm
W662	23351046	Speaker, SPK-1319, 70x130mm, 8 ohm
W663	23351047	Speaker, SPK-1320, 60x90mm, 8 ohm
W664	23351047	Speaker, SPK-1320, 60x90mm, 8 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X502	23250950	Coil, 1H-Delay Line, DL711
XA01	23153845	Ceramic Resonator, 4.0MHz, TCR1015
XF01	23153657	Crystal, 13.875MHz
XF02	23153924	Crystal, 6.000MHz
XG01	23153661	Crystal, 10MHz
XN01	23153979	Crystal, 4.43MHz

Location No.	Part No.	Description
Z101	A5615249	PIF SAW Filter, F1804D
Z104	23107913	Ceramic Video Trap, 6.5MHz, TCF1018
Z201	23107972	Ceramic Video Trap, 5.5MHz, TPS5.5MB
Z603	23107856	Ceramic Filter, 5.74MHz, TCF1030
Z604	23107949	Cermaic Filter, 6.5MHz, SFE6.5MBF
Z661	23107742	Filter, TEM1014
Z662	23107742	Filter, TEM1014
Z663	23107742	Filter, TEM1014
Z664	23153900	Ceramic Resonator, 500kHz, TCR1010
Z664	23107742	Filter, TEM1014
Z666	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZA01	24094651	Capacitor Block, 100pFx4, 50V
ZA02	24000548	Resistor Block, 47k ohmx4, 1/10W
ZA03	24000548	Resistor Block, 47k ohmx4, 1/10W
ZF01	23107746	Filter, 3MHz, TEM1010
ZG03	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZG04	23107855	Ceramic Filter, 5.5MHz, TCF1031
ZG05	23107913	Ceramic Video Trap, 6.5MHz, TCF1018
ZV01	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
ZV02	23107744	Filter, 3MHz, TEM1012
ZV03	23107744	Filter, 3MHz, TEM1012
ZV04	23107742	Filter, TEM1014
ZV05	23107742	Filter, TEM1014
ZV06	23107744	Filter, 3MHz, TEM1012
ZV07	23107744	Filter, 3MHz, TEM1012
ZV08	23107742	Filter, TEM1014
ZV09	23107742	Filter, TEM1014
ZV10	23107744	Filter, 3MHz, TEM1012
ZV11	23107744	Filter, 3MHz, TEM1012
ZV12	23107744	Filter, 3MHz, TEM1012
ZV13	23107744	Filter, 3MHz, TEM1012
ZV14	23107787	Ceramic Video Trap, 3.58MHz, TCF1044
ZV15	23107742	Filter, TEM1014
ZV16	23107742	Filter, TEM1014
ZV17	23107744	Filter, 3MHz, TEM1012
ZV18	23107744	Filter, 3MHz, TEM1012
ZV19	23107742	Filter, TEM1014
ZV20	23107742	Filter, TEM1014
ZV21	23107742	Filter, TEM1014
ZV22	23107742	Filter, TEM1014
ZV23	23107742	Filter, TEM1014
ZV24	23107742	Filter, TEM1014
ZV25	23107742	Filter, TEM1014
ZV26	23107742	Filter, TEM1014

PC BOARD ASSEMBLIES

Location No.	Part No.	Description
U101	23336873	PIF Board, PB0141-1
U902A	23336654	Main Board, PB0187
U903A	23336878	Power Board, PB0143-1
U903B	23336879	Back Term. Baord, PB0143-2

Location No.	Part No.	Description
U904A	23336655	CRT Drive Board, PB0188-1
U904B	23336656	Control Board, PB0188-2
U904C	23336657	Headphone Board, PB0188-3
UF01	23336875	Text Board, PB0141-3
UG01	23336874	IGR Board, PB0141-2
US01	23336876	Surround Board, PB0141-4

PICTURE TUBE

Location No.	Part No.	Description
⚠ V901	A5572839	Picture Tube, A59KHQ146X, SVC

TUNER

Location No.	Part No.	Description
H001	23121569	Tuner, VHF/UHF, EG448L

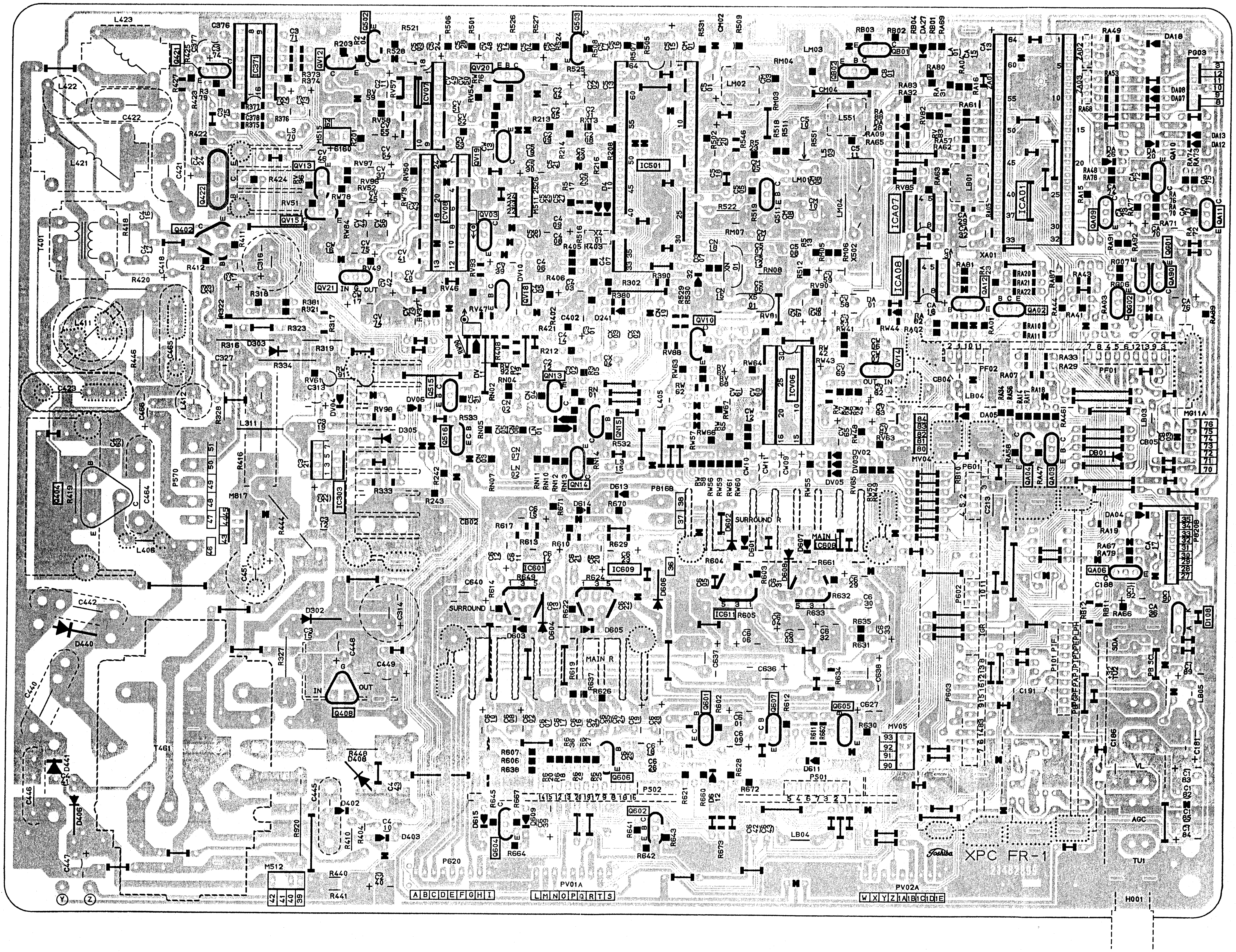
REMOTE HAND SET PARTS

Location No.	Part No.	Description
K902	23120340	Remote Hand Unit, CT-9493
AT01	23304519	Upper Case
AT02	23304520	Lower Case
AT03	23304521	Battery Cover
AT04	23304440	Filter
ST01	23304522	Rubber Sheet, L
ST02	23304523	Rubber Sheet, S
UT01	23336498	PC Board, PB0530
ZT01	23153736	Ceramic Resonator, SCB455EB20

Location No.	Part No.	Description

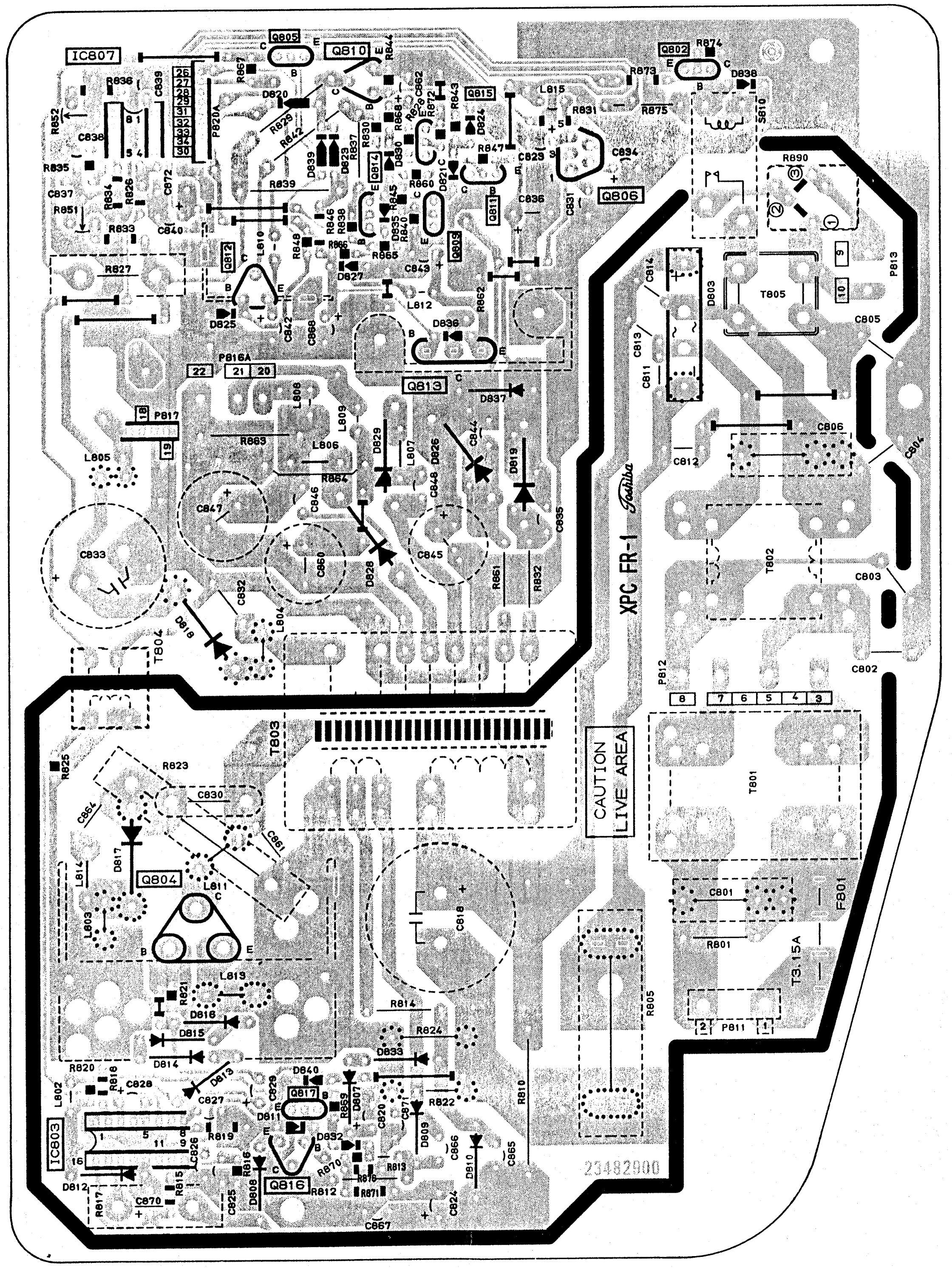
MAIN BOARD PB0187

BOTTOM (FOIL) SIDE



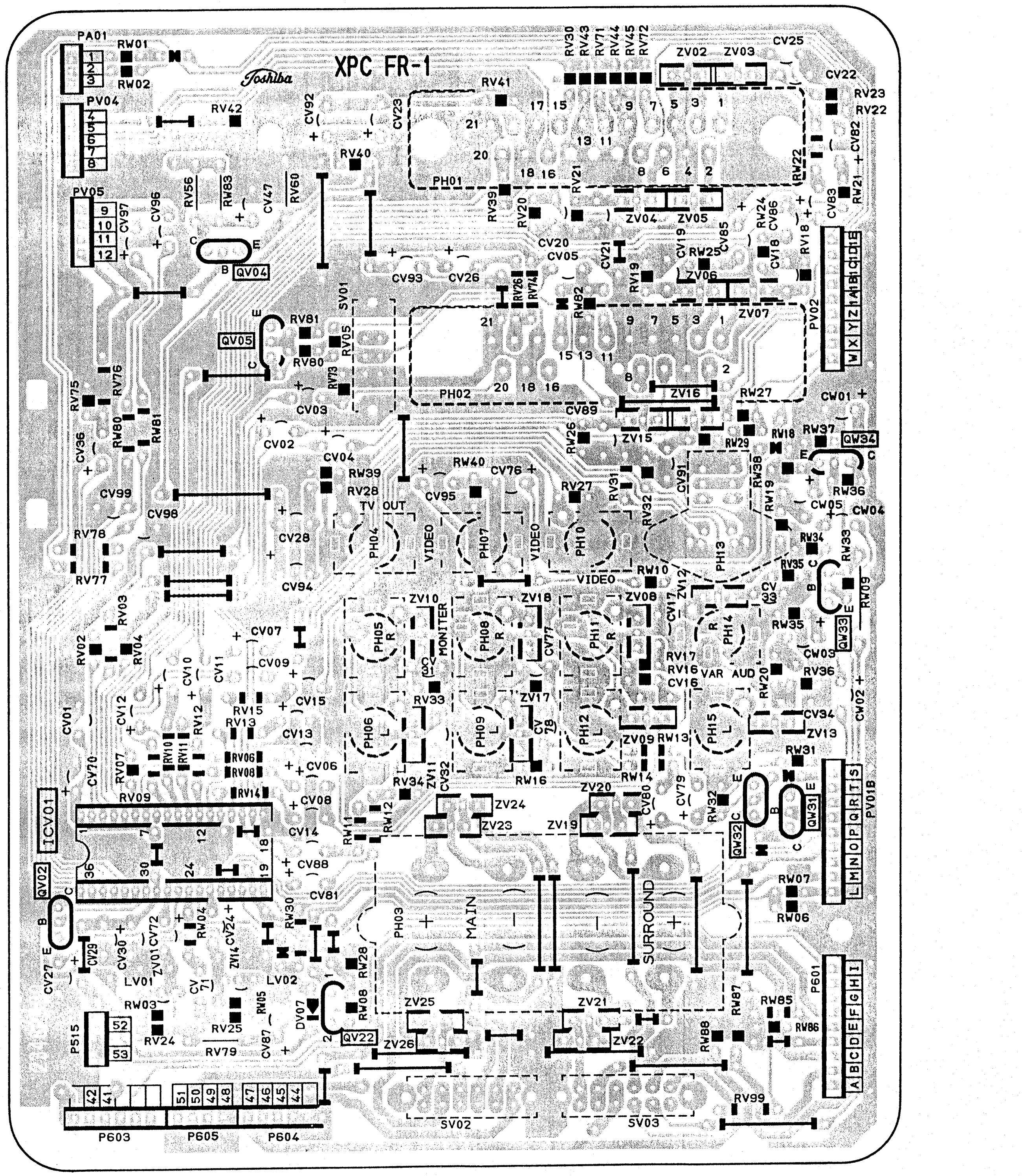
POWER BOARD PB0143-1

BOTTOM (FOIL) SIDE


IC807
Q805
Q810
Q802
Q815
Q806
Q814
Q811
Q812
Q813
Q804
Q817
Q816
IC803
T805
T802
T801
T803
T804
P813
P812
P811
P816A
P817
XPC FR-1
Toshiba
CAUTION
LIVE AREA
T3.15A
F801
C801
R801
R805
R810
C818
C833
C847
C845
C860
L805
L811
L813
23482900

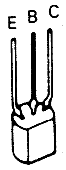
BACK TERMINAL BOARD PB0143-2

BOTTOM (FOIL) SIDE

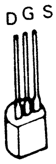

PA01
PV04
PV05
Toshiba
XPC FR-1
QV04
QV05
PH01
PH02
PH03
PH04
PH05
PH06
PH07
PH08
PH09
PH10
PH11
PH12
PH13
PH14
PH15
TV OUT
VIDEO
MONITER
VAR AUD
MAIN
SURROUND
ICV01
QV02
QV22
QW31
QW32
QW33
QW34
PV01
PV02
P515
P601
P603
P605
P604
SV02
SV03

TERMINAL VIEW OF TRANSISTORS

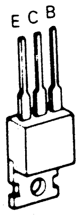
① BC327
BC337
BC547A
BC547B
BC547C
BC557A
BC557B
BC556A



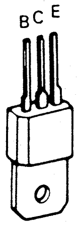
② 2SK30ATM
2SK117



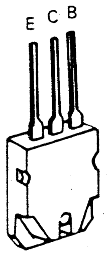
③ BD202



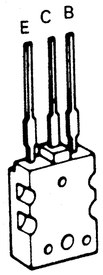
④ BF871
2SD553
2SC1569



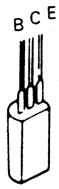
⑤ 2SC3678
2SC3182N



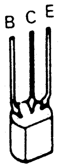
⑥ 2SD1427
2SD1432



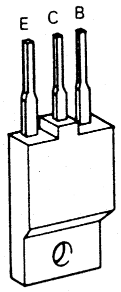
⑦ 2SC2482
2SA1321
2SC2230
2SA1020
2SC2655
2SC752GTM



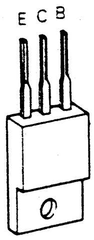
⑧ 2SC388ATM
2SA1015
2SC1959
2SA562TM



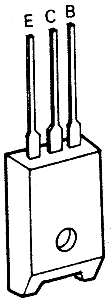
⑨ 2SD1548



⑩ 2SC2023

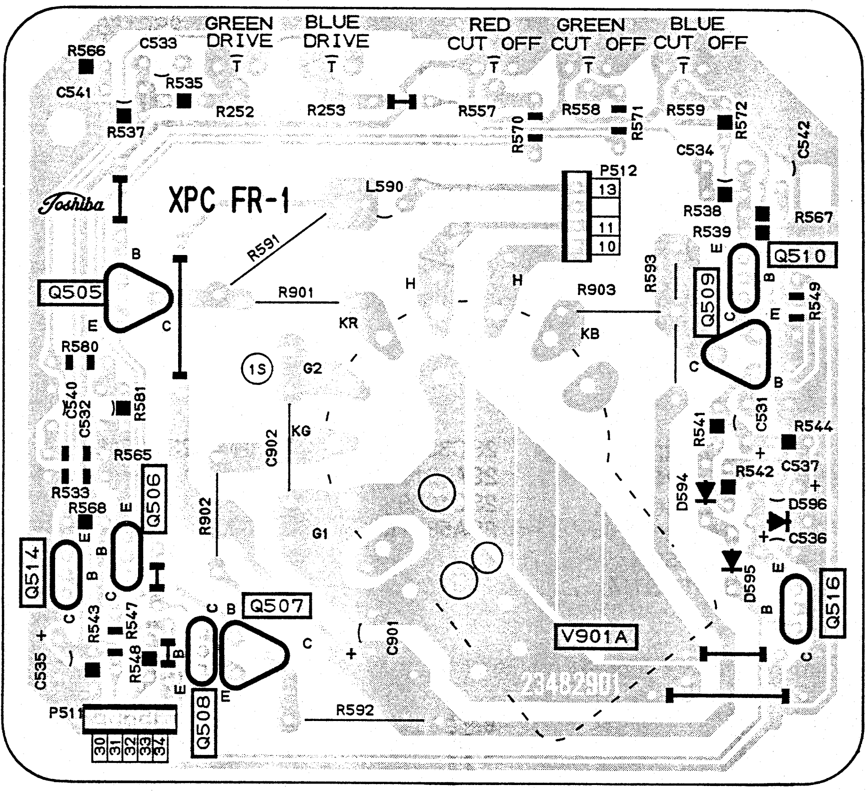


⑪ ON4408
ON4409



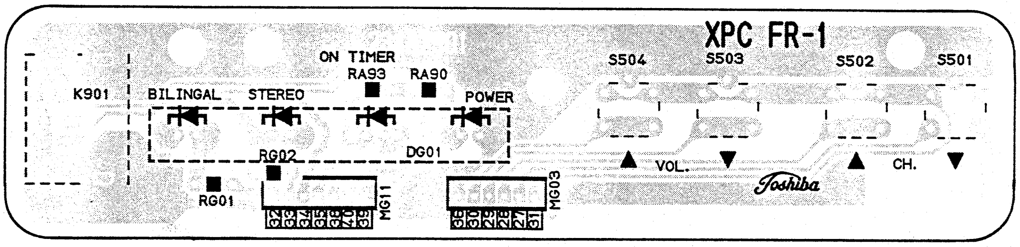
CRT DRIVE BOARD PB0188-1

BOTTOM (FOIL) SIDE


GREEN DRIVE
BLUE DRIVE
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
R566
C533
C541
R535
R537
R252
R253
R557
R570
R558
R571
R559
R572
C534
C542
P512
13
11
10
XPC FR-1
L590
R591
R538
R539
R567
Q510
Q505
R901
R903
R593
Q509
R549
H
KR
KB
1S
G2
KG
C902
R580
C540
C532
R581
R565
R533
R568
Q506
Q514
R541
C531
R544
R542
C537
D594
D596
C536
D595
Q516
R902
G1
V901A
R543
R547
R548
C535
Q507
Q508
C901
R592
P511
30
31
32
33
34
23482901
E
B
C

CONTROL BOARD PB0188-2

BOTTOM (FOIL) SIDE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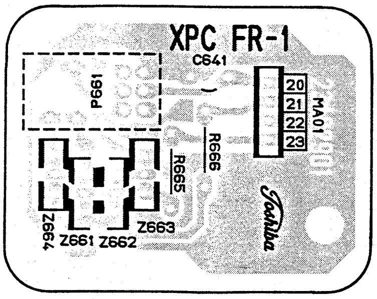
K901
ON TIMER
RA93
RA90
BILINGAL
STEREO
POWER
RG02
DG01
RG01
MG11
MG03
S504
S503
S502
S501
VOL.
CH.
▲
▼

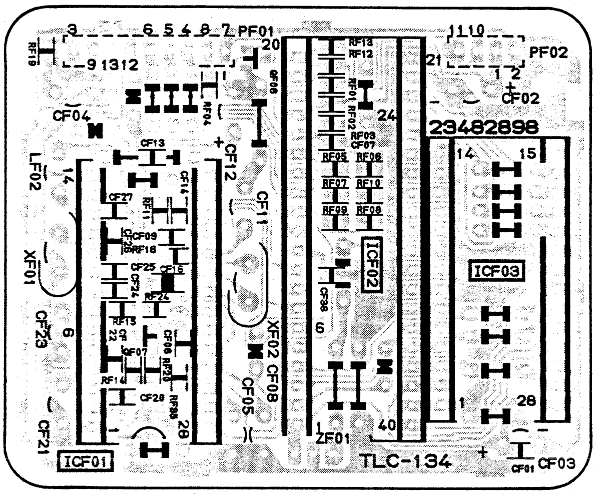
HEADPHONE BOARD PB0188-3

BOTTOM (FOIL) SIDE


XPC FR-1
C641
P661
20
21
22
23
MA01
R666
R665
Z664
Z661
Z662
Z663

TEXT BOARD PB0141-3

BOTTOM (FOIL) SIDE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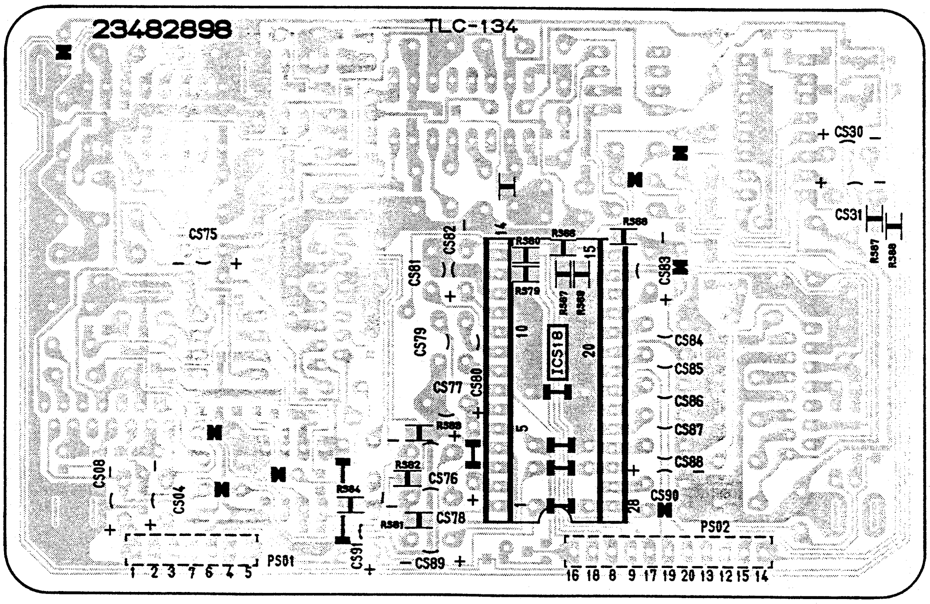
PF02
CF02
CF04
LF02
XF01
CF23
CF21
ICF01
CF12
CF11
XF02
CF08
CF05
ZF01
ICF02
TLC-134
23482898
ICF03
CF03
CF13
CF27
CF09
CF25
CF24
CF07
CF28
RF01
RF02
RF05
RF06
RF07
RF10
RF09
RF08
RF12
RF13
RF14
RF15
RF16
RF19

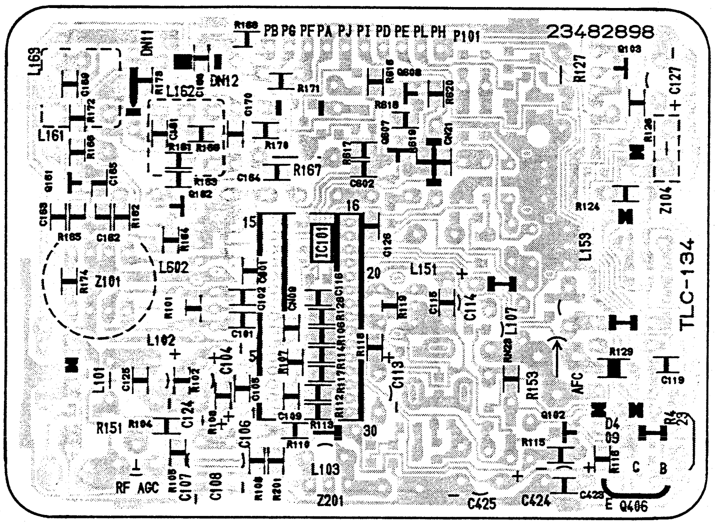
SURROUND BOARD PB0141-4

BOTTOM (FOIL) SIDE


23482898
TLC-134
CS30
CS31
CS75
CS81
CS82
CS79
CS77
CS80
CS83
CS84
CS85
CS86
CS87
CS88
CS90
IC518
R580
R566
R579
R588
R582
R584
R581
R587
CS76
CS78
CS89
CS08
CS07
C569
PS01
1 2 3 7 6 4 5
PS02
16 18 8 9 17 19 20 13 12 15 14

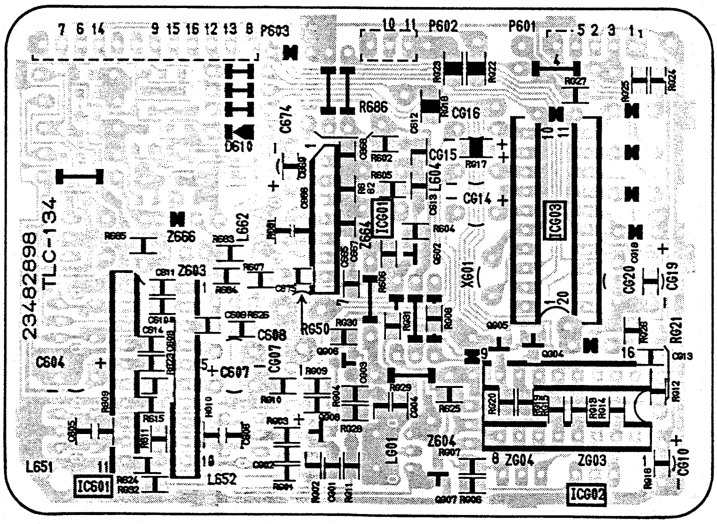
PIF BOARD PB0141-1

BOTTOM (FOIL) SIDE


23482898
PB PG PF PA PJ PI PD PE PL PH P101
TLC-134
IC101
L161
L162
L163
L151
L153
L107
L101
L102
L103
L602
Z101
Z104
Z201
DN11
DN12
R167
R151
R153
C113
C114
C124
C106
C107
C108
C127
C424
C425
RF AGC
AFC
D4
09
C
B
E Q406
15
16
20
30

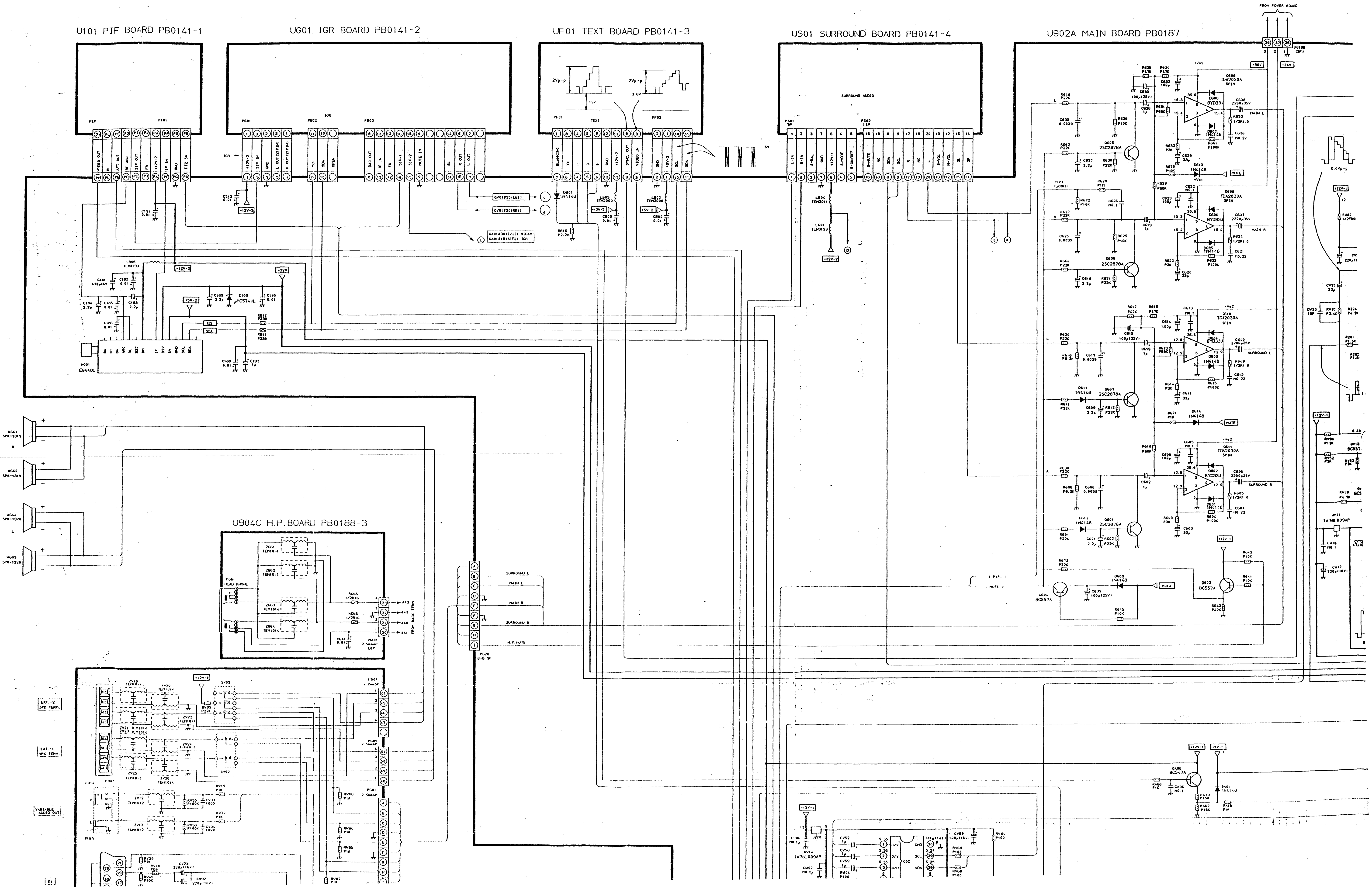
IGR BOARD PB0141-2

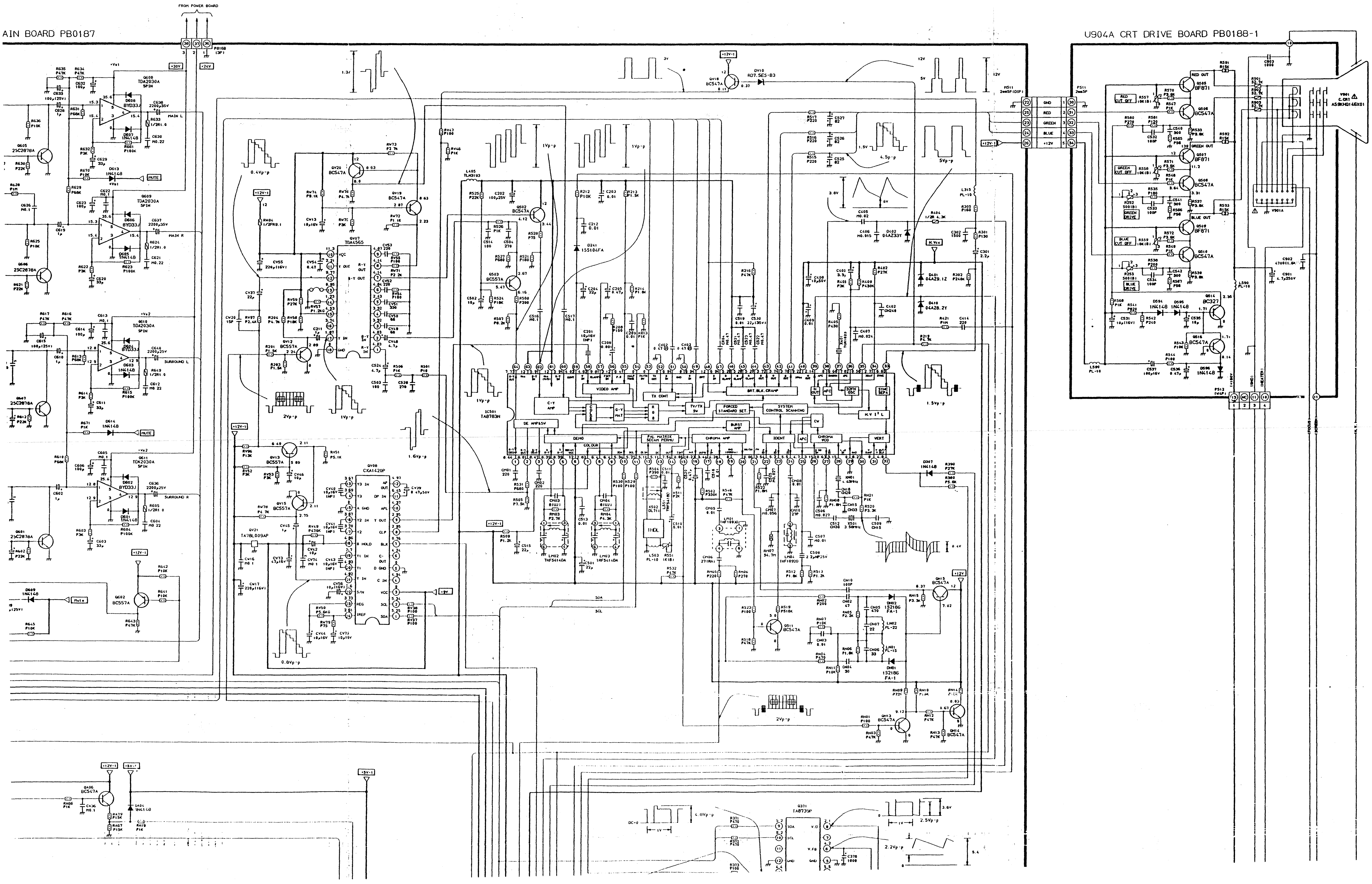
BOTTOM (FOIL) SIDE

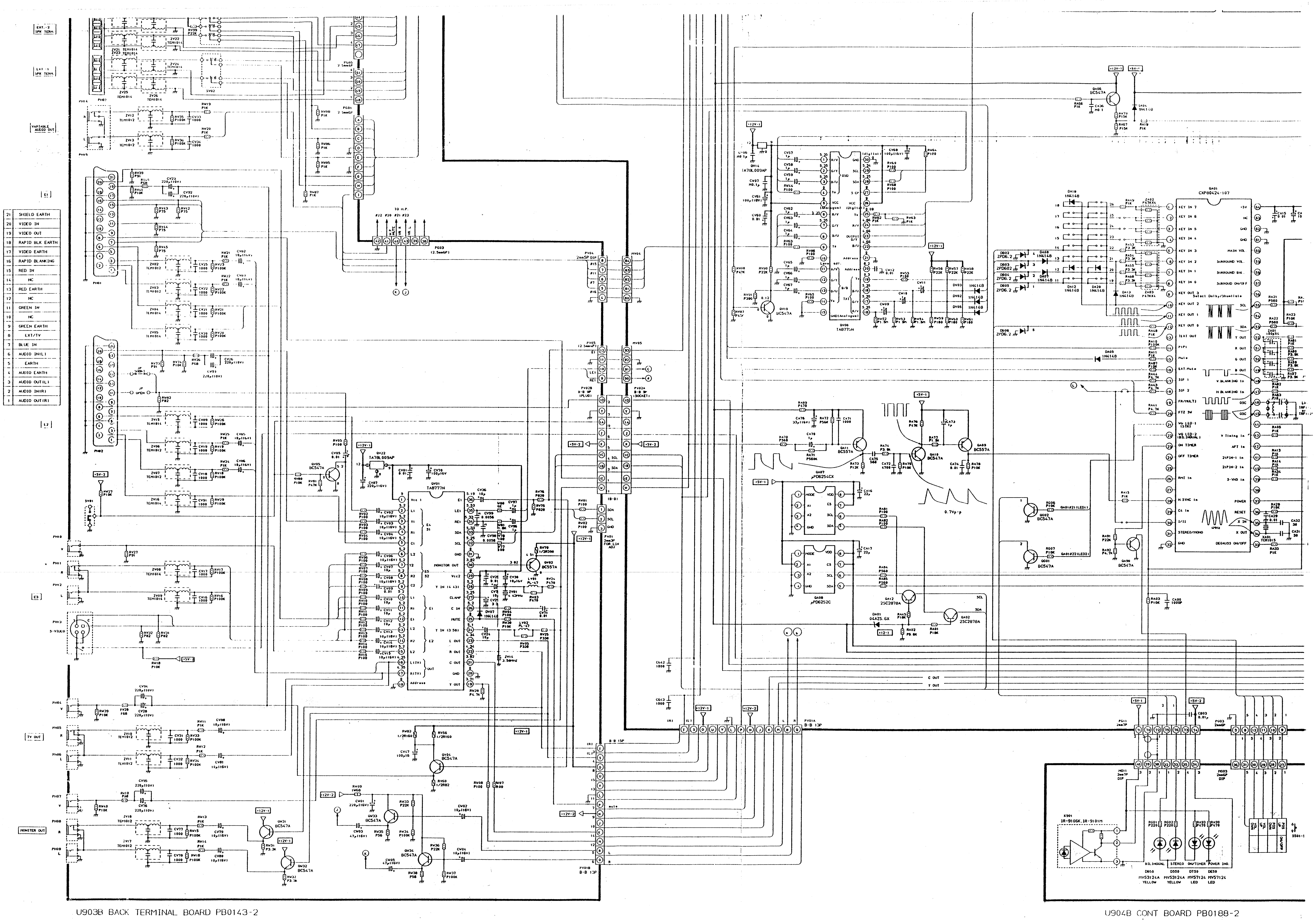

7 6 14
9 15 16 12 13 8 P603
10 11 P602
P601
5 2 3 1
23482898
TLC-134
IC601
IC602
IC603
IC501
IC502
D610
C674
R686
CG16
CG15
CG14
X601
Z666
Z663
Z664
Z604
ZG04
ZG03
L662
L604
L601
L651
L652
C604
CG07
CG08
C607
RG50
CG19
CG20
CG10
RG21
8
16
10
11
20
1

2505DDT

SCHEMATIC DIAGRAM (1/2)


U101 PIF BOARD PB0141-1
UG01 IGR BOARD PB0141-2
UF01 TEXT BOARD PB0141-3
US01 SURROUND BOARD PB0141-4
U902A MAIN BOARD PB0187
U904C H.P. BOARD PB0188-3
FROM POWER BOARD
SURROUND AUDIO
TDA2030A
2SC2878A
BC557A
BYD33J
1N4148
MAIN L
MAIN R
SURROUND L
SURROUND R
MUTE
H001
EG448L
TLN3193
+12V-2
+5V-2
+32V
SCL
SDA
W661 SPK-1319
W662 SPK-1319
W663 SPK-1320
W664 SPK-1320
HEAD PHONE
EXT.-2 SPK TERM.
EXT.-1 SPK TERM.
VARIABLE AUDIO OUT
P620 8-8 9P
TA78L009AP
BC547A


AIN BOARD PB0187
FROM POWER BOARD
P816B (3P)
+30V
+24V
U904A CRT DRIVE BOARD PB0188-1
Q608 TDA2030A 5PIN
Q609 TDA2030A 5PIN
Q610 TDA2030A 5PIN
Q611 TDA2030A 5PIN
MAIN L
MAIN R
SURROUND L
SURROUND R
MUTE
Q605 2SC2078A
Q606 2SC2078A
Q607 2SC2078A
Q601 2SC2078A
Q602 BC557A
QV07 TDA4565
QV08 CXA1620P
QV21 TA78L009AP
IC501 TA8783N
Q371 TA8739P
QV19 BC547A
QV20 BC547A
QV10 BC547A
DV10 RD7.5ES-B3
Q502 BC547A
Q503 BC557A
QV12 BC557A
QV13 BC557A
QV15 BC557A
Q511 BC547A
QN13 BC547A
QN14 BC547A
QN15 BC547A
Q406 BC547A
0.4Vp-p
2Vp-p
1Vp-p
0.8Vp-p
1.6Vp-p
4.5p-p
5Vp-p
1.5Vp-p
2.5Vp-p
2.2Vp-p
4.0Vp-p
+12V-1
+5V-1
VIDEO AMP
BRT.BLK.CRAMP
TX CONT
C-Y AMP
G-Y MAT
TV/TX SW
FORCED STANDARD SET.
SYSTEM CONTROL SCANNING
H.V I²L
DE AMP&SW
DEMO
COLOUR
PAL MATRIX SECAM PERMU
CHROMA AMP
BURST AMP
IDENT
APC
CHROMA VCO
VERT
CV
AFC
32FH OSC
SYNC SEPA
H OUT
P511 2mm5P
GND
RED
GREEN
BLUE
+12V
RED CUT OFF
GREEN CUT OFF
BLUE CUT OFF
RED DRIVE
GREEN DRIVE
BLUE DRIVE
RED OUT
GREEN OUT
BLUE OUT
Q505 BF871
Q506 BC547A
Q507 BF871
Q508 BC547A
Q509 BF871
Q510 BC547A
Q514 BC327
Q515 BC547A
V901 C.CRT A59KHQ146X01
V901A
P512 (4P)
FOCUS
SCREEN
H.V.
HEATER

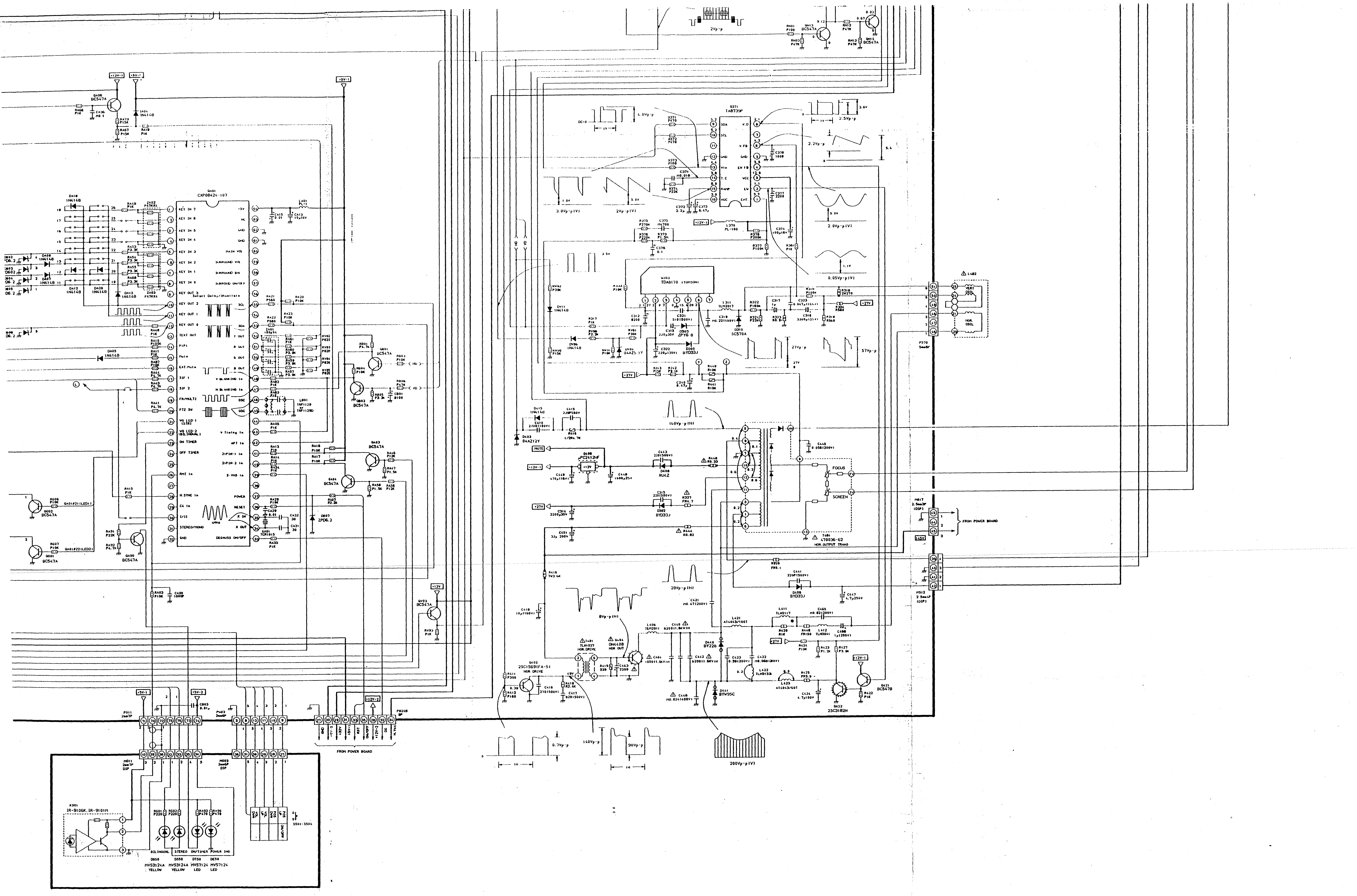


EXT.-2 SPK TERM
EXT.-1 SPK TERM
VARIABLE AUDIO OUT
E1
L2
E3
TV OUT
MONITER OUT
S-VIDEO
PH01
PH02
PH10
PH11
PH12
PH13
PH04
PH05
PH06
PH07
PH08
PH09
PG03 2.5mm6P
PG01 2.5mm6P
PG03 (2.5mm6P)
TO H.P.
QV01 TA8777N
QV22 TA78L009AP
QV05 BC547A
QV02 BC557A
QV04 BC547A
QV33 BC547A
QV34 BC547A
QV31 BC547A
QV32 BC547A
PV04 2mm5P DIP
MV04
PV05 (2.5mm4P)
MV05
PV02B B-B 9P (PLUG)
MV02A B-B 9P (SOCKET)
IB-B1
PA01 2mm3P FOR L.H ADJ
B-B 15P
PV01B B-B 13P
PV01A B-B 13P
QV06 TA8775N
QV14 TA78L009AP
QV10 BC547A
QA01 CXP80424-107
QA07 μPD6252CX
QA08 μPD6252C
QA11 BC557A
QA10 BC547A
QA09 BC557A
QA06 BC547A
QA02 BC547A
QA03 BC547A
QA90 BC547A
QA12 2SC2878A
QA02 2SC2878A
DA01 04AZ5.6X
X901 IR-9106K, IR-9101M
D550 MV53124A YELLOW
D550 MV53124A YELLOW
D750 MV57124 LED
DE50 MV57124 LED
BILINGUAL
STEREO
ON/TIMER
POWER IND.
PG11 2mm7P
MG11 2mm7P DIP
PG03 2mm6P
MG03 2mm6P DIP
C OUT
Y OUT
0.7Vp-p
+12V-1
+12V-2
+5V-1
+5V-2

21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	NC
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT/TV
7	BLUE IN
6	AUDIO IN(L)
5	EARTH
4	AUDIO EARTH
3	AUDIO OUT(L)
2	AUDIO IN(R)
1	AUDIO OUT(R)

U903B BACK TERMINAL BOARD PB0143-2

U904B CONT BOARD PB0188-2


QA01
CXP80424-107
U303
TDA8170
Q371
TA8739P
Q600
μPC2412HF
T401
470036-62
HOR OUTPUT TRANS
FOCUS
SCREEN
VERT COIL
HOR COIL
FROM POWER BOARD
K901
IR-9106K, IR-9101M
BILINGUAL
STEREO
ON/TIMER
POWER IND
MV53124A
MV57124
YELLOW
LED
2SC1569(FA-5)
HOR DRIVE
2SC3182N
BC547A
BC547B
BY228
BYW95C
BYD33J
2.0Vp-p(V)
200Vp-p(V)
140Vp-p
90Vp-p
28Vp-p(H)
27Vp-p
57Vp-p
1H

U904B CONT BOARD PB0188-2

2505DDT

SCHEMATIC DIAGRAM (2/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (−) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

GROUNDING SYMBOL

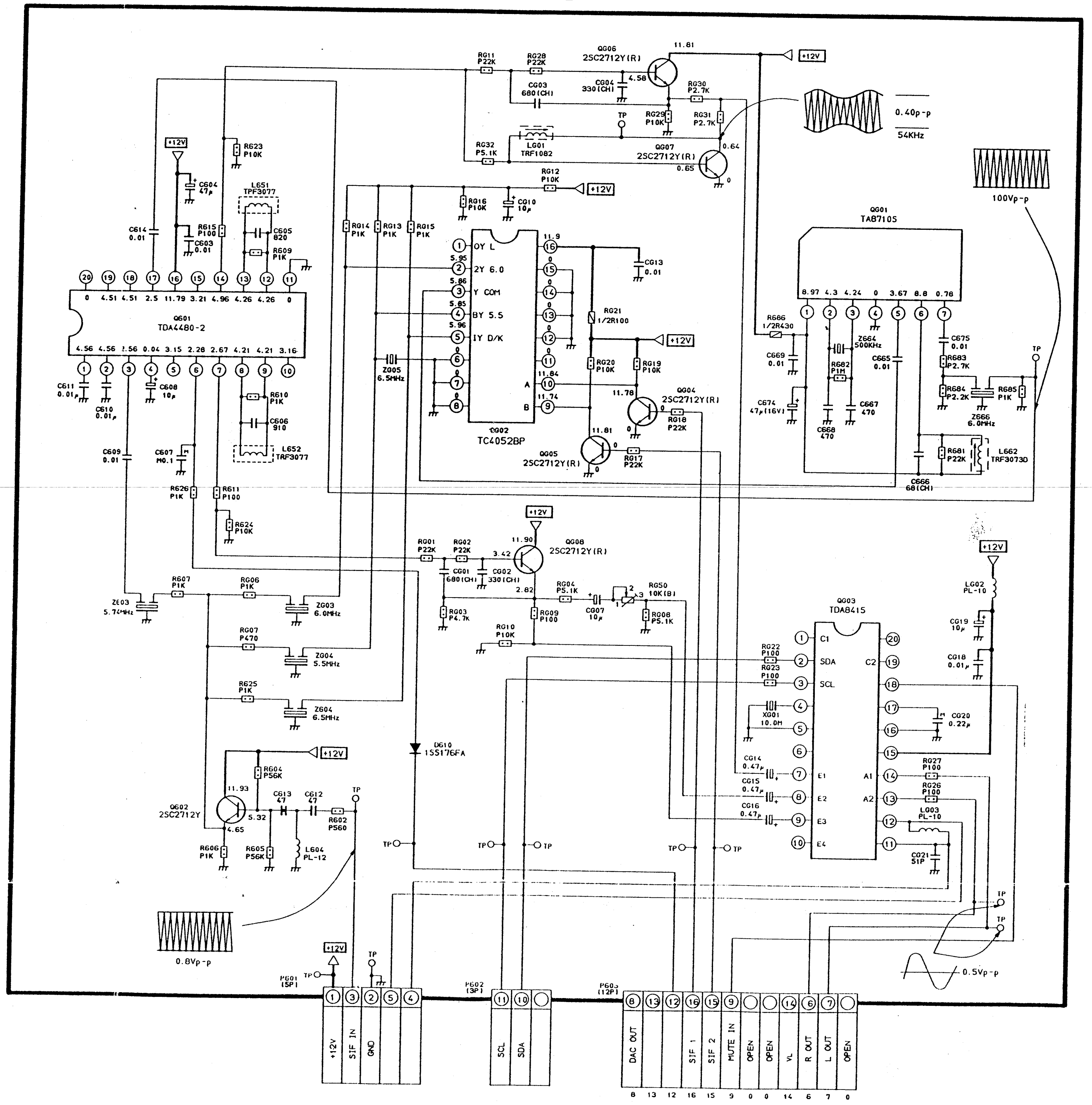
1. ⊥: Non isolated ground, ⏚ : Isolated ground.

RESISTORS

Prefixed to values:

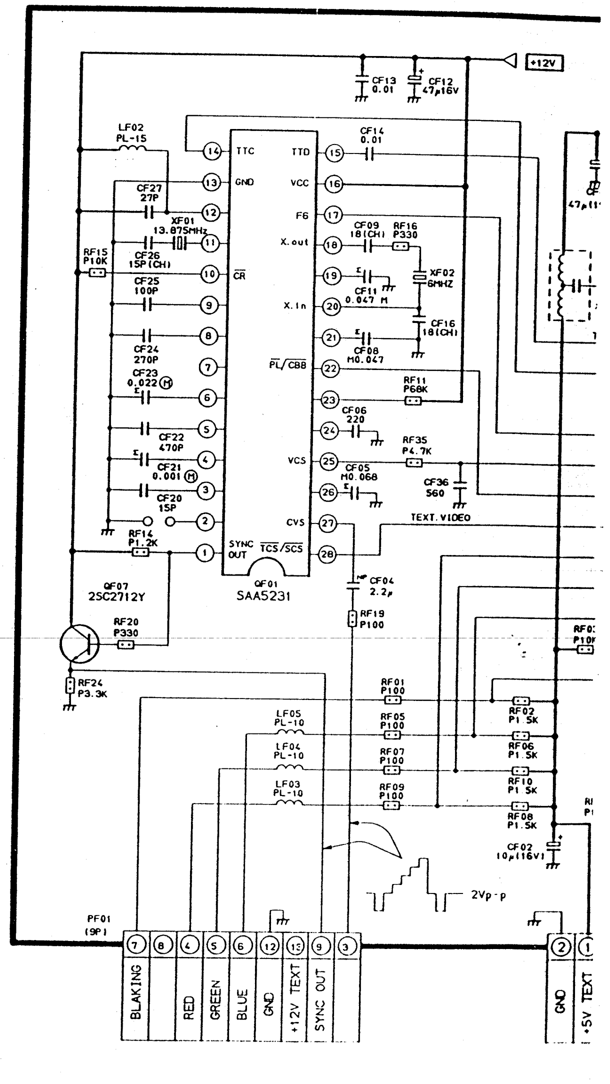
TYPE
Carbon Comp
Oxide Metal Fil
Ins. Carbon Fil
Wire Wound
Cement covered V
Fusible Res.

UG01 IGR BOARD PB0141-2


RG11 P22K
RG28 P22K
QG06 2SC2712Y(R)
11.81
+12V
CG03 680(CH)
CG04 330(CH)
4.58
RG30 P2.7K
RG29 P10K
RG31 P2.7K
TP
RG32 P5.1K
LG01 TRF1082
QG07 2SC2712Y(R)
0.64
0.65
0.40p-p
54KHz
100Vp-p
RG12 P10K
RG16 P10K
CG10 10μ
RG14 P1K
RG13 P1K
RG15 P1K
R623 P10K
C604 47μ
L651 TPF3077
C614 0.01
R615 P100
C603 0.01
C605 820
R609 P1K
Q601 TDA4480-2
0 4.51 4.51 2.5 11.79 3.21 4.96 4.26 4.26 0
4.56 4.56 2.56 0.04 3.15 2.28 2.67 4.21 4.21 3.16
C611 0.01μ
C610 0.01μ
C608 10μ
R610 P1K
C606 910
L652 TRF3077
C609 0.01
C607 M0.1
R626 P1K
R611 P100
R624 P10K
QG02 TC4052BP
OY L
2Y 6.0
Y COM
BY 5.5
IY D/K
A
B
11.9
5.95
5.86
5.85
5.96
11.84
11.74
ZG05 6.5MHz
CG13 0.01
RG21 1/2R100
RG20 P10K
RG19 P10K
11.78
QG04 2SC2712Y(R)
RG18 P22K
11.81
QG05 2SC2712Y(R)
RG17 P22K
QG01 TA8710S
8.97 4.3 4.24 0 3.67 8.8 0.78
R686 1/2R430
C669 0.01
Z664 500KHz
R682 P1M
C665 0.01
C675 0.01
R683 P2.7K
R684 P2.2K
R685 P1K
Z666 6.0MHz
C674 47μ(16V)
C668 470
C667 470
R681 P22K
L662 TRF3073D
C666 68(CH)
RG01 P22K
RG02 P22K
QG08 2SC2712Y(R)
11.90
3.42
2.82
CG01 680(CH)
CG02 330(CH)
RG04 P5.1K
CG07 10μ
RG50 10K(B)
RG03 P4.7K
RG09 P100
RG08 P5.1K
RG10 P10K
R607 P1K
RG06 P1K
ZG03 6.0MHz
ZG03 5.74MHz
RG07 P470
ZG04 5.5MHz
R625 P1K
ZG04 6.5MHz
DG10 1SS176FA
Q602 2SC2712Y
11.93
5.32
4.65
R604 P56K
C613 47
C612 47
R602 P560
R606 P1K
R605 P56K
L604 PL-12
0.8Vp-p
QG03 TDA8415
C1
SDA
SCL
E1
E2
E3
E4
C2
A1
A2
RG22 P100
RG23 P100
XG01 10.0M
CG14 0.47μ
CG15 0.47μ
CG16 0.47μ
LG02 PL-10
CG19 10μ
CG18 0.01μ
CG20 0.22μ
RG27 P100
RG26 P100
LG03 PL-10
CG21 51P
0.5Vp-p
P601 (5P)
+12V
SIF IN
GND
P602 (3P)
SCL
SDA
P603 (12P)
DAC OUT
SIF 1
SIF 2
MUTE IN
OPEN
OPEN
VL
R OUT
L OUT
OPEN
8 13 12 16 15 9 0 0 14 6 7 0

U903A POWER BOARD PB0143-1

UF01 TEXT BOARD PB0141-3


+12V
CF13 0.01
CF12 47μ16V
LF02 PL-15
CF14 0.01
TTC
GND
TTD
VCC
F6
X.out
X.in
CR
PL/CBB
VCS
CVS
SYNC OUT
TCS/SCS
CF27 27P
XF01 13.875MHz
CF26 15P(CH)
RF15 P10K
CF25 100P
CF24 270P
CF23 0.022
CF22 470P
CF21 0.001
CF20 15P
RF14 P1.2K
CF09 18(CH)
RF16 P330
XF02 6MHZ
CF11 0.047 M
CF16 18(CH)
CF08 M0.047
RF11 P68K
CF06 220
RF35 P4.7K
CF05 M0.068
CF36 560
TEXT.VIDEO
QF01 SAA5231
CF04 2.2μ
RF19 P100
QF07 2SC2712Y
RF20 P330
RF24 P3.3K
RF01 P100
RF02 P1.5K
LF05 PL-10
RF05 P100
RF06 P1.5K
LF04 PL-10
RF07 P100
RF10 P1.5K
LF03 PL-10
RF09 P100
RF08 P1.5K
CF02 10μ(16V)
2Vp-p
PF01 (9P)
BLAKING
RED
GREEN
BLUE
GND
+12V TEXT
SYNC OUT
GND
+5V TEXT

cuit diagram is subject to change without notice.

N

SISTOR, CAPACITOR and INDUCTOR

s shown in ohm, k=1,000, M=1,000,000.
rwise noted in schematic, all capacitor values less than 1 are expressed in
values more than 1 in pF.
rwise noted in schematic, all inductor values more than 1 are expressed in
values less than 1 in H.

SYMBOL

ıted ground, ⏚ : Isolated ground.

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Markings:

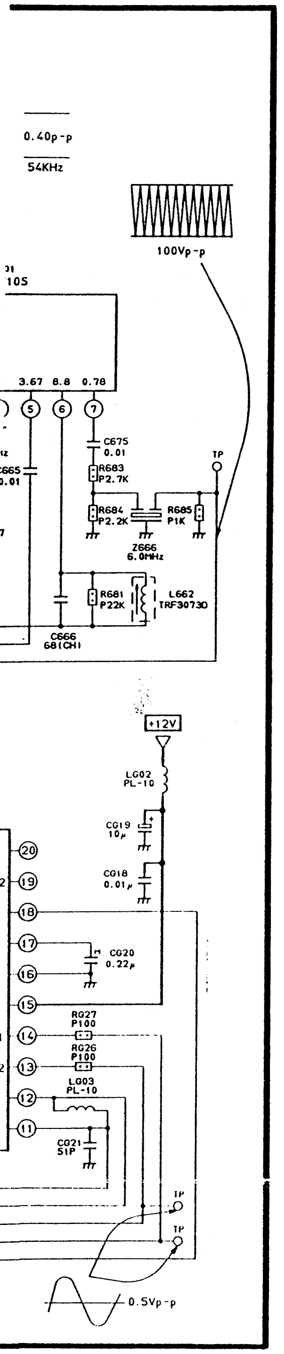
WATTAGE	MARK
1/6W	●●
1/4W	●
	⊠
1/2W	▱
1W	1
2W	2

WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

CAPACITORS

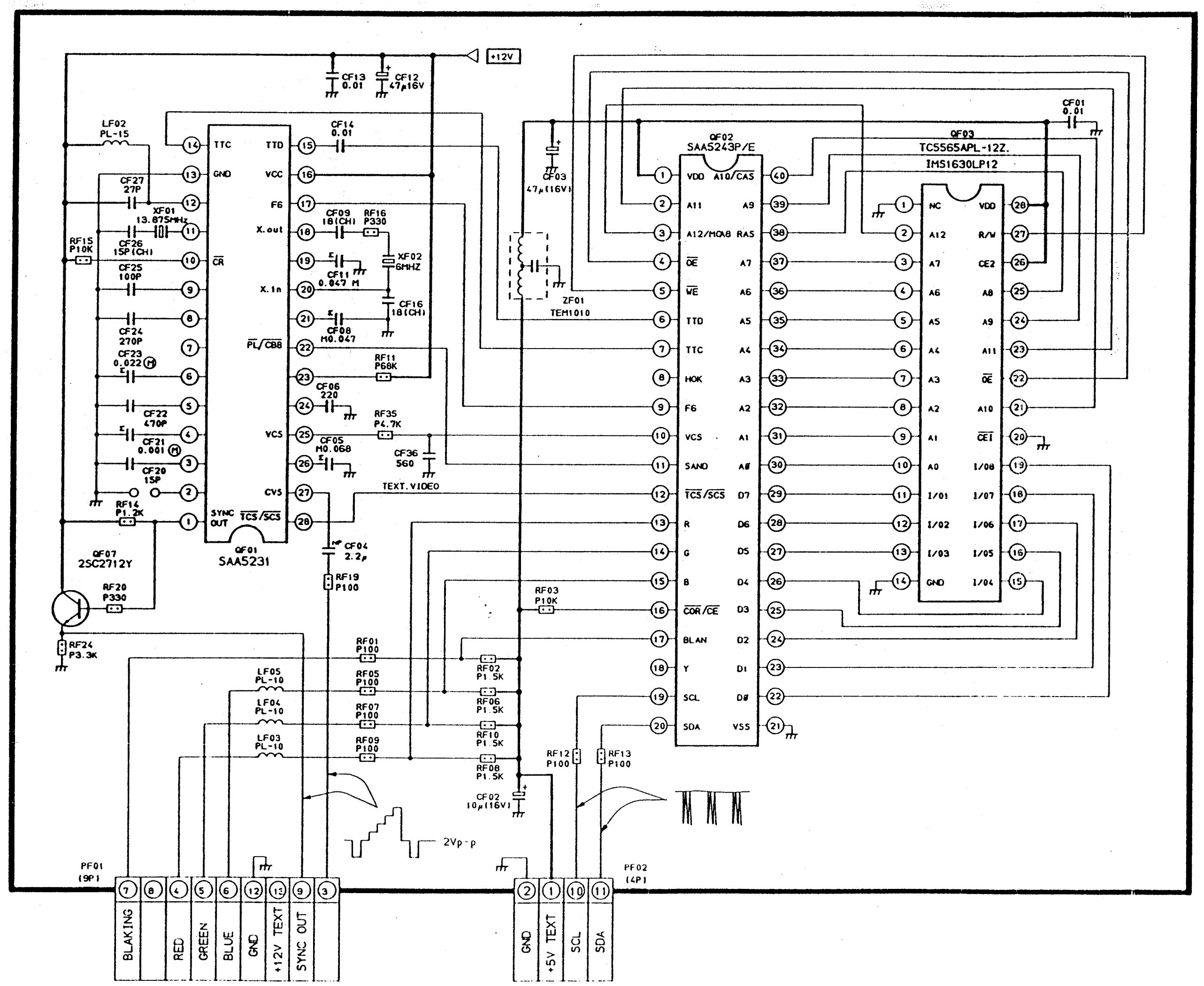
Rating Markings:

Type	Mark
Ceramic Disc 50V Only	⊣⊢
Electrolytic	⊣⊢
Electrolytic Non-Polar	⊣⊢
Variable Capacitor	⊣⊢
Other	⊣⊢



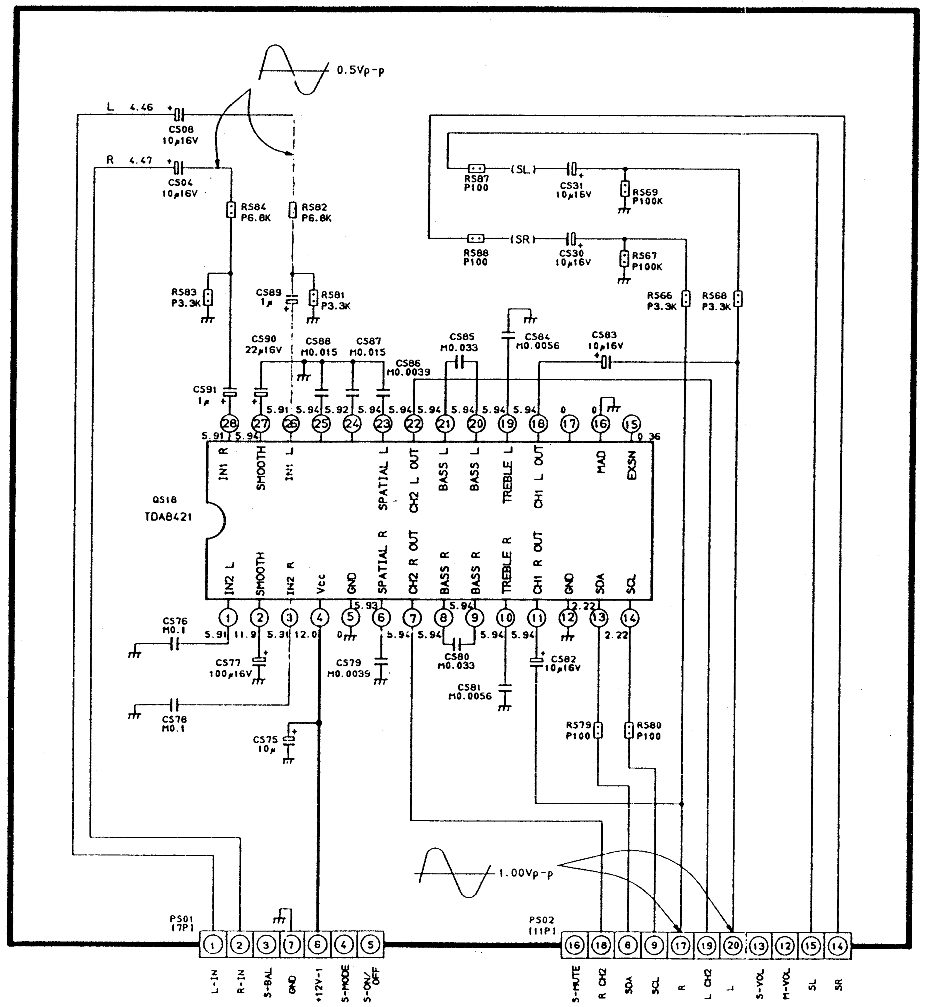
0.40p-p
54KHz
100Vp-p
3.67 8.8 0.78
C675 0.01
R683 P2.7K
R684 P2.2K
R685 P1K
Z666 6.0MHz
R681 P22K
L662 TRF3073D
C666 681(CH)
+12V
LG02 PL-10
CG19 10μ
CG18 0.01μ
CG20 0.22μ
RG27 P100
RG26 P100
LG03 PL-10
CG21 51P
0.5Vp-p

UF01 TEXT BOARD PB0141-3



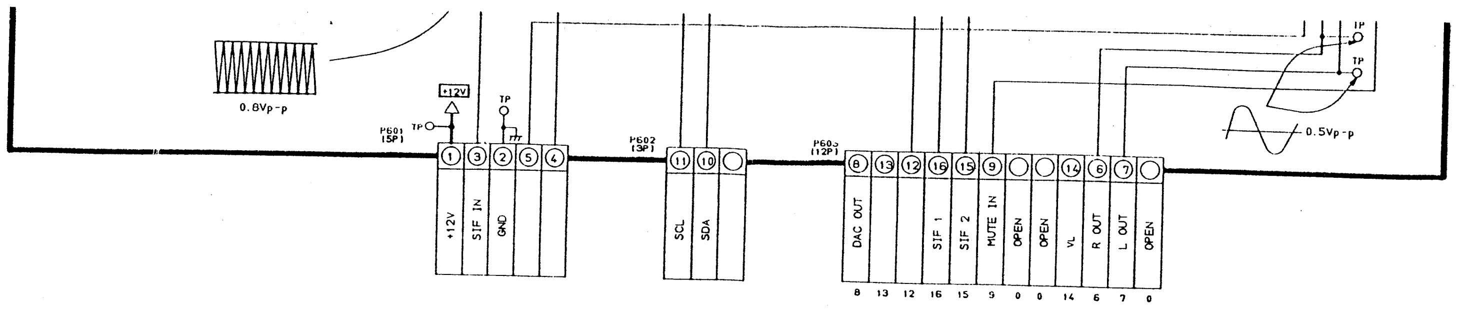
+12V
CF13 0.01
CF12 47μ16V
LF02 PL-15
CF27 27P
XF01 13.875MHz
RF15 P10K
CF26 15P(CH)
CF25 100P
CF24 270P
CF23 0.022
CF22 470P
CF21 0.001
CF20 15P
RF14 P1.2K
QF07 2SC2712Y
RF20 P330
RF24 P3.3K
QF01 SAA5231
CF14 0.01
CF09 18(CH)
RF16 P330
XF02 6MHZ
CF11 0.047
CF16 18(CH)
CF08 M0.047
RF11 P68K
CF06 220
RF35 P4.7K
CF05 M0.068
CF36 560
TEXT. VIDEO
CF04 2.2μ
RF19 P100
CF03 47μ(16V)
ZF01 TEM1010
QF02 SAA5243P/E
QF03 TC5565APL-12Z, IMS1630LP12
CF01 0.01
RF03 P10K
RF01 P100
RF05 P100
RF07 P100
RF09 P100
RF02 P1.5K
RF06 P1.5K
RF10 P1.5K
RF08 P1.5K
LF05 PL-10
LF04 PL-10
LF03 PL-10
RF12 P100
RF13 P100
CF02 10μ(16V)
2Vp-p
PF01 (9P)
PF02 (4P)
BLAKING
RED
GREEN
BLUE
GND
+12V TEXT
SYNC OUT
GND
+5V TEXT
SCL
SDA

US01 SURROUND BOARD PB0141-4



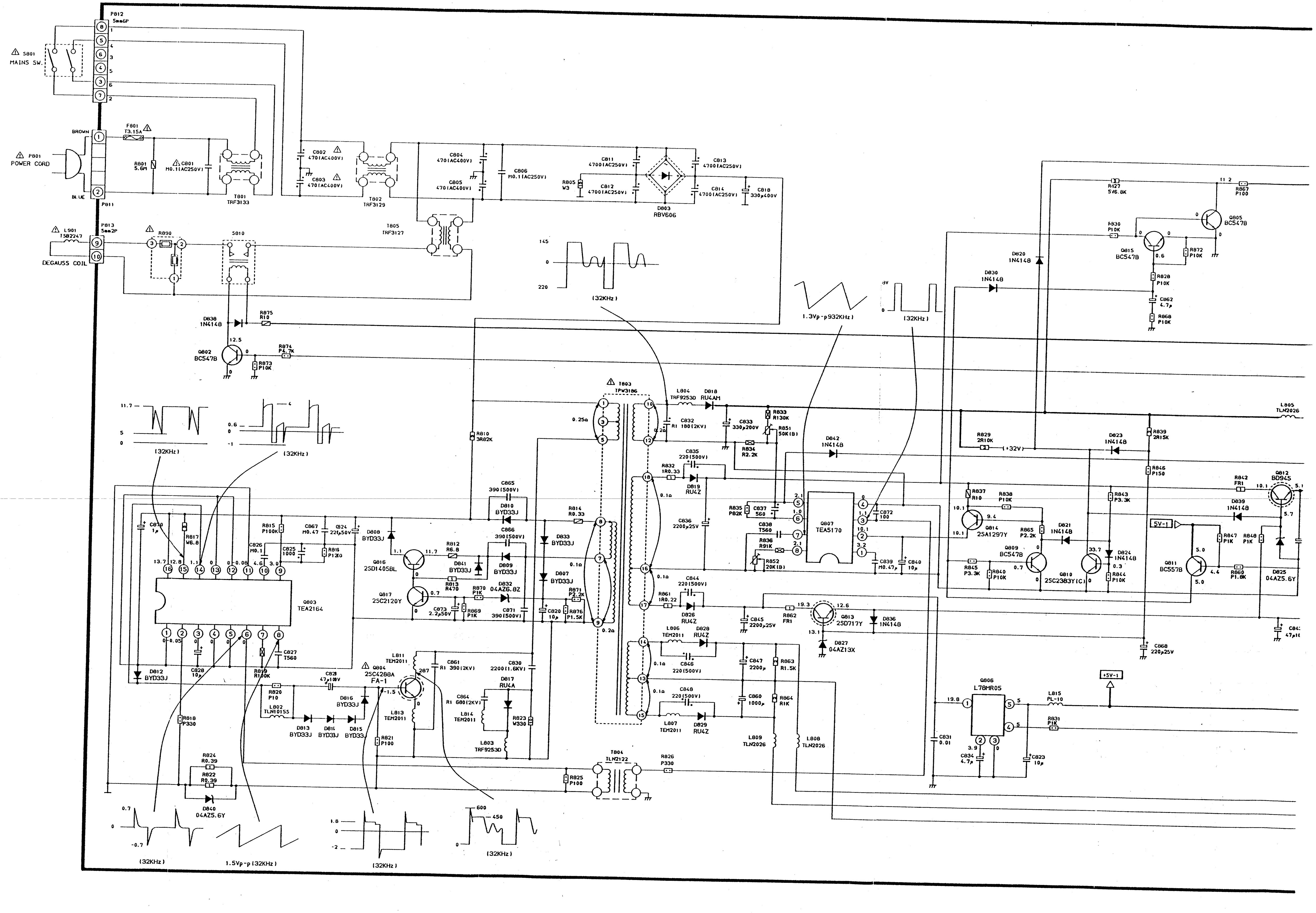
0.5Vp-p
L 4.46
R 4.47
C508 10μ16V
C504 10μ16V
R584 P6.8K
R582 P6.8K
R587 P100
C531 10μ16V
R569 P100K
R586 P100
C530 10μ16V
R567 P100K
R583 P3.3K
C589 1μ
R581 P3.3K
R566 P3.3K
R568 P3.3K
C590 22μ16V
C588 M0.015
C587 M0.015
C586 M0.0039
C585 M0.033
C584 M0.0056
C583 10μ16V
C591 1μ
Q518 TDA8421
IN1 R
SMOOTH
IN1 L
SPATIAL L
CH2 L OUT
BASS L
BASS L
TREBLE L
CH1 L OUT
MAD
EXSH
IN2 L
SMOOTH
IN2 R
Vcc
GND
SPATIAL R
CH2 R OUT
BASS R
BASS R
TREBLE R
CH1 R OUT
GND
SDA
SCL
C576 M0.1
C577 100μ16V
C579 M0.0039
C580 M0.033
C581 M0.0056
C582 10μ16V
C578 M0.1
C575 10μ
R579 P100
R580 P100
1.00Vp-p
P501 (7P)
P502 (11P)
L-IN
R-IN
S-BAL
GND
+12V-1
S-MODE
S-ON/OFF
S-MUTE
R CH2
SDA
SCL
R
L CH2
L
S-VOL
M-VOL
SL
SR

U101 PIF BOARD (WG) PB0141-1

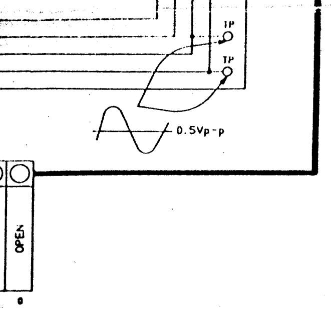


0.8Vp-p
P601 (5P)
TP
+12V
SIF IN
GND
P602 (3P)
SCL
SDA
P603 (12P)
DAC OUT
SIF 1
SIF 2
MUTE IN
OPEN
VL
R OUT
L OUT
0.5Vp-p
8 13 12 16 15 9 0 0 14 6 7 0

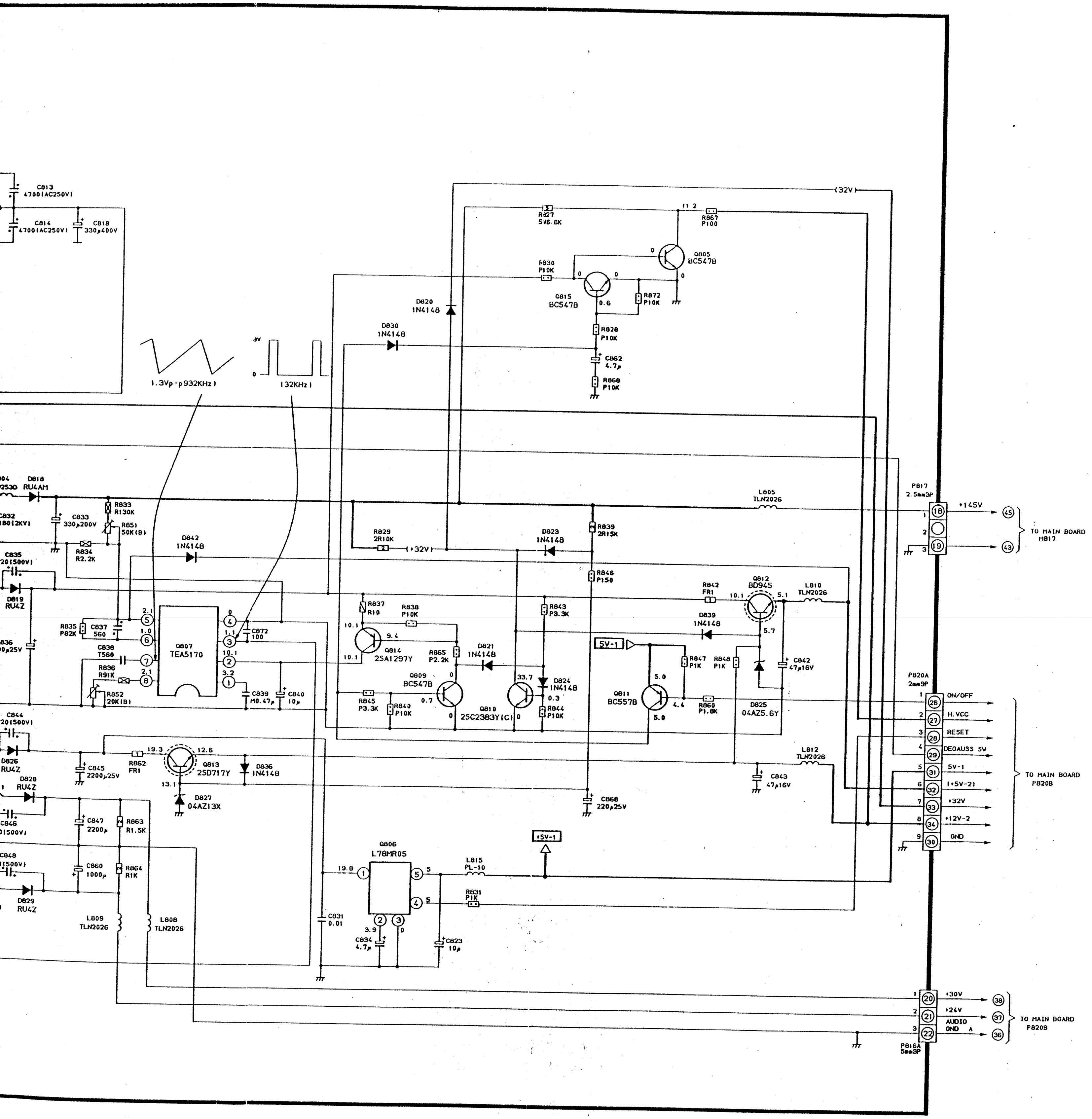
U903A POWER BOARD PB0143-1



S801 MAINS SW.
P812 5mm6P
P801 POWER CORD
BROWN
BLUE
F801 T3.15A
R801 5.6M
C801 M0.1(AC250V)
T801 TRF3133
C802 470(AC400V)
C803 470(AC400V)
T802 TRF3129
C804 470(AC400V)
C805 470(AC400V)
C806 M0.1(AC250V)
R805 W3
C811 4700(AC250V)
C812 4700(AC250V)
D803 RBV606
C813 4700(AC250V)
C814 4700(AC250V)
C818 330μ400V
T805 TRF3127
L901 ISB2247
P813 5mm2P
DEGAUSS COIL
R890
S810
D838 1N4148
R875 R10
Q802 BC547B
R874 P4.7K
R873 P10K
(32KHz)
1.3Vp-p(32KHz)
T803 TPW3186
L804 TRF92530
D818 RU4AM
C832 R1 180(2KV)
C833 330μ200V
R833 R130K
R851 50K(B)
R834 R2.2K
D842 1N4148
R810 3R82K
C865 390(500V)
D810 BYD33J
C866 390(500V)
D809 BYD33J
D833 BYD33J
D807 BYD33J
R814 R0.33
C835 220(500V)
R832 1R0.33
D819 RU4Z
C836 2200μ25V
R835 P82K
C837 560
C838 T560
R836 R91K
R852 20K(B)
Q807 TEA5170
C872 100
C839 M0.47μ
C840 10μ
C844 220(500V)
R861 1R0.22
D826 RU4Z
C845 2200μ25V
R862 FR1
Q813 2SD717Y
D836 1N4148
D827 04AZ13X
L806 TEM2011
D828 RU4Z
C846 220(500V)
C847 2200μ
R863 R1.5K
L807 TEM2011
C848 220(500V)
D829 RU4Z
C860 1000μ
R864 R1K
L809 TLN2026
L808 TLN2026
Q803 TEA2164
C870 1μ
R817 W6.8
R815 P100K
C826 M0.1
C867 M0.47
C824 22μ50V
C825 1000
R816 P120
D808 BYD33J
Q816 2SD1405BL
R812 R6.8
D841 BYD33J
D832 04AZ6.8Z
Q817 2SC2120Y
R813 R470
C873 2.2μ50V
R870 P1K
R869 P1K
C871 390(500V)
C820 10μ
R871 P2.2K
R876 P1.5K
D812 BYD33J
C828 10μ
R819 R120K
C827 T560
C821 47μ10V
R820 P10
L802 TLN10155
D813 BYD33J
D814 BYD33J
D815 BYD33J
D816 BYD33J
Q804 2SC4288A FA-1
L811 TEM2011
L813 TEM2011
R821 P100
C861 R1 390(2KV)
C864 R1 680(2KV)
L814 TEM2011
L803 TRF92530
C830 2200(1.6KV)
D817 RU4A
R823 W330
R818 P330
R824 R0.39
R822 R0.39
D840 04AZ5.6Y
T804 TLN2122
R825 P100
R826 P330
(32KHz)
1.5Vp-p(32KHz)
R427 5%6.8K
R867 P100
Q805 BC547B
R830 P10K
Q815 BC547B
R872 P10K
R828 P10K
C862 4.7μ
R868 P10K
D820 1N4148
D830 1N4148
L805 TLN2026
R829 2R10K
(+32V)
D823 1N4148
R839 2R15K
R846 P150
R837 R10
R838 P10K
Q814 2SA1297Y
R865 P2.2K
D821 1N4148
R843 P3.3K
D824 1N4148
Q809 BC547B
R845 P3.3K
R840 P10K
Q810 2SC2383Y(C)
R844 P10K
R842 FR1
Q812 BD945
D839 1N4148
5V-1
R847 P1K
R848 P1K
Q811 BC557B
R860 P1.8K
D825 04AZ5.6Y
C868 220μ25V
C831 0.01
Q806 L78MR05
C834 4.7μ
C823 10μ
L815 PL-10
R831 P1K
+5V-1

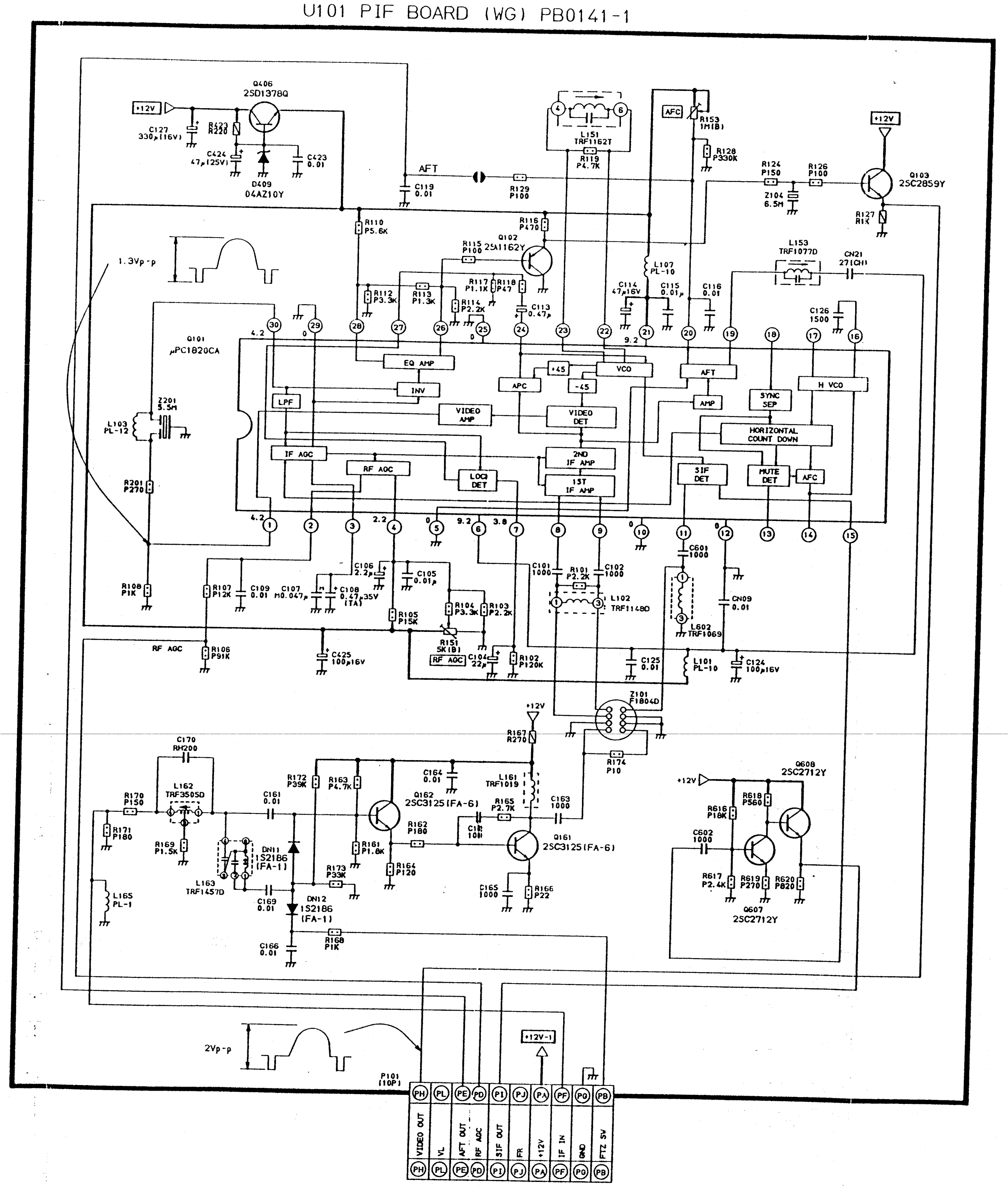


TP
TP
0.5Vp-p
OPEN



C813 4700(AC250V)
C814 4700(AC250V)
C818 330μ400V
1.3Vp-p(32KHz)
(32KHz)
D820 1N4148
D830 1N4148
R427 5Ǿ6.8K
R867 P100
R930 P10K
Q815 BC547B
Q805 BC547B
R872 P10K
R828 P10K
C862 4.7μ
R868 P10K
(32V)
D818 RU4AM
R833 R130K
C833 330μ200V
R851 50K(B)
R834 R2.2K
D842 1N4148
L805 TLN2026
R829 2R10K
D823 1N4148
R839 2R15K
R846 P150
P817 2.5mm3P
+145V
TO MAIN BOARD M817
D819 RU4Z
R835 P82K
C837 560
C838 T560
R836 R91K
R852 20K(B)
Q807 TEA5170
C872 100
C839 M0.47μ
C840 10μ
R837 R10
R838 P10K
Q814 2SA1297Y
R865 P2.2K
D821 1N4148
R843 P3.3K
D824 1N4148
R844 P10K
Q810 2SC2383Y(C)
Q809 BC547B
R845 P3.3K
R840 P10K
R842 FR1
Q812 BD945
L810 TLN2026
D839 1N4148
5V-1
R847 P1K
R848 P1K
C842 47μ16V
Q811 BC557B
R860 P1.0K
D825 04AZ5.6Y
P820A 2mm9P
ON/OFF
H.VCC
RESET
DEGAUSS SW
5V-1
(+5V-2)
+32V
+12V-2
GND
TO MAIN BOARD P820B
D826 RU4Z
C845 2200μ25V
R862 FR1
Q813 2SD717Y
D836 1N4148
D827 04AZ13X
L812 TLN2026
C843 47μ16V
C868 220μ25V
D828 RU4Z
C847 2200μ
R863 R1.5K
C860 1000μ
R864 R1K
D829 RU4Z
L809 TLN2026
L808 TLN2026
Q806 L78MR05
L815 PL-10
+5V-1
R831 P1K
C831 0.01
C834 4.7μ
C823 10μ
+30V
+24V
AUDIO GND A
TO MAIN BOARD P820B
P816A 5mm3P

U101 PIF BOARD (WG) PB0141-1



+12V
Q406 2SD1378Q
C127 330μ(16V)
R423 R220
C424 47μ(25V)
D409 04AZ10Y
C423 0.01
AFT
C119 0.01
R129 P100
L151 TRF1162T
R119 P4.7K
AFC
R153 1M(B)
R128 P330K
R124 P150
R126 P100
Z104 6.5M
+12V
Q103 2SC2859Y
R127 R1K
R110 P5.6K
R116 P470
R115 P100
Q102 2SA1162Y
1.3Vp-p
R112 P3.3K
R113 P1.3K
R117 P1.1K
R118 P47
R114 P2.2K
C113 0.47μ
C114 47μ16V
L107 PL-10
C115 0.01μ
C116 0.01
L153 TRF1077D
CN21 27(CH)
C126 1500
Q101 μPC1820CA
EQ AMP
INV
LPF
VIDEO AMP
VIDEO DET
APC
+45
-45
VCO
AFT
AMP
SYNC SEP
H VCO
HORIZONTAL COUNT DOWN
IF AGC
RF AGC
LOCK DET
2ND IF AMP
1ST IF AMP
SIF DET
MUTE DET
AFC
Z201 5.5M
L103 PL-12
R201 P270
R108 P1K
R107 P12K
C109 0.01
C107 M0.047μ
C106 2.2μ
C108 0.47μ35V (TA)
C105 0.01μ
R104 P3.3K
R103 P2.2K
R105 P15K
C101 1000
R101 P2.2K
C102 1000
L102 TRF1148D
C601 1000
L602 TRF1069
CN09 0.01
RF AGC
R106 P91K
C425 100μ16V
R151 5K(B)
C104 22μ
R102 P120K
C125 0.01
L101 PL-10
C124 100μ16V
Z101 F1804D
+12V
R167 R270
R174 P10
C170 RH200
L162 TRF3505D
R170 P150
R171 P180
R169 P1.5K
L163 TRF1457D
D411 1S2186 (FA-1)
C161 0.01
R172 P35K
R163 P4.7K
C164 0.01
L161 TRF1019
Q162 2SC3125(FA-6)
R165 P2.7K
C163 1000
C18 10H
R161 P1.8K
R162 P180
Q161 2SC3125(FA-6)
R164 P120
R173 P33K
C165 1000
R166 P22
C169 0.01
DN12 1S2186 (FA-1)
R168 P1K
C166 0.01
L165 PL-1
+12V
Q608 2SC2712Y
R618 P18K
R618 P560
C602 1000
R617 P2.4K
R619 P270
R620 P820
Q607 2SC2712Y
2Vp-p
+12V-1
P101 (10P)
VIDEO OUT
VL
AFT OUT
RF AGC
SIF OUT
FR
+12V
IF IN
GND
FTZ SV